

10/016,229

=> d his

(FILE 'HOME' ENTERED AT 12:49:55 ON 02 AUG 2002)

FILE 'REGISTRY' ENTERED AT 12:50:00 ON 02 AUG 2002

L1 STRUCTURE UPLOADED
L2 QUE L1
L3 17 S L2
L4 STRUCTURE UPLOADED
L5 QUE L4
L6 10 S L5
L7 164 S L5 SSS FUL

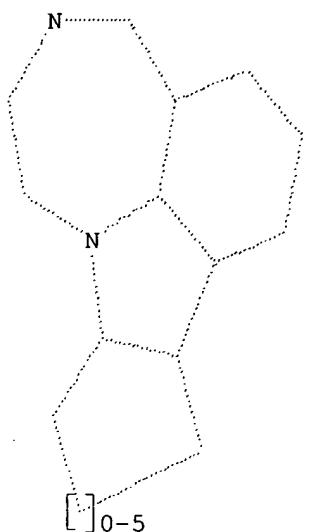
FILE 'CPLUS' ENTERED AT 12:52:22 ON 02 AUG 2002

L8 20 S L7

=> d 15

L5 HAS NO ANSWERS

L4 STR



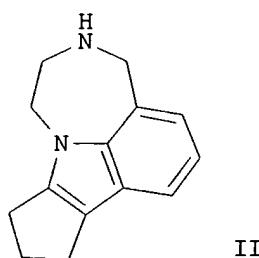
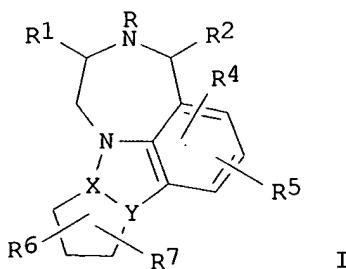
Structure attributes must be viewed using STN Express query preparation.

L5 QUE ABB=ON PLU=ON L4

=> d bib abs hitstr 18 1-20

L8 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:408673 CAPLUS
 DN 137:6202
 TI Preparation of cyclopenta[b][1,4]diazepino[6,7,1-hi]indoles as selective 5-HT2c receptor agonists
 IN Sabb, Annmarie Louise; Vogel, Robert Lewis; Nelson, James Albert; Rosenzweig-Lipson, Sharon Joy; Welmaker, Gregory Scott; Sabalski, Joan Eileen; Smith, Michael David; Chan, Anita Wai-Yin; Antane, Madelene Miyoko; Raveendranath, Panolil; Megati, Sreenivasulu
 PA Wyeth, John, and Brother Ltd., USA
 SO PCT Int. Appl., 111 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002042304	A2	20020530	WO 2001-US45792	20011101	
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
PRAI	US 2000-245591P	P	20001103	US 2000-245593P	20001103	
	US 2000-245843P	P	20001103	US 2000-245915P	20001103	
	US 2000-245954P	P	20001103			
OS	MARPAT 137:6202					
GI						



AB Cyclopenta[b][1,4]diazepino[6,7,1-hi]indoles [I; R = H, alkyl, acyl, alkylcarbonyl, aryl, heteroaryl, arylcarbonyl, heteroarylcarbonyl; R1, R2 = H, alkyl, fluoroalkyl, cycloalkyl, alkoxy, CH2OH, amino, aryl, heteroaryl, arylcarbonyl, heteroarylcarbonyl, alkylsulfonylamino, alkylaminosulfonyl, etc.; R4, R5 = H, halo, cyano, alkyl, fluoroalkyl, alkoxy, fluoroalkoxy, aryl, heteroaryl, arylcarbonyl, heteroarylcarbonyl, amino, etc.; R6, R7 = H, alkyl, cycloalkyl, cycloalkylmethyl; XY = CHCH,

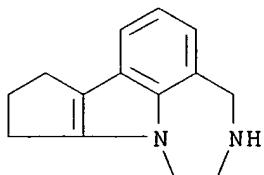
C:C] are prep'd. as selective 5-HT2c agonists for use in the treatment of schizophrenia, obsessive-compulsive disorder, depression, anxiety, panic disorder, generalized anxiety disorder, obesity and epilepsy.

Cyclopenta[b]indoles are claimed as intermediates in the prepn. of I. E.g., 2,3,4,5-tetrahydro-1H-benzodiazepine is acetylated with Ac2O to give 4-acetyl-2,3,4,5-tetrahydro-1H-1,4-benzodiazepine; addn. of NaNO2 and HCl, redn. of the nitrosamine with Zn in situ, addn. of cyclopentanone, and hydrolysis of the acetyl group gives hexahydrocyclopenta[b][1,4]diazepino[6,7,1-hi]indole II. Biol. data on the binding of selected I to 5-HT2c receptors is given.

IT **420802-62-6P**

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of cyclopentadiazepinoindoles as selective 5-HT2c receptor agonists for treatment of schizophrenia and anxiety and depression and obesity)

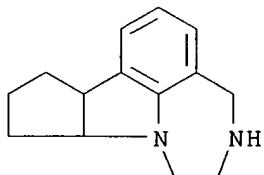
RN 420802-62-6 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,9,10-hexahydro- (9CI) (CA INDEX NAME)

IT **420802-63-7P 422311-95-3P 422311-96-4P
422311-97-5P 422311-98-6P 422311-99-7P
425414-33-1P 425414-34-2P 428868-30-8P
428868-31-9P 428868-32-0P 432049-99-5P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of cyclopentadiazepinoindoles as selective 5-HT2c receptor agonists for treatment of schizophrenia and anxiety and depression and obesity)

RN 420802-63-7 CAPLUS

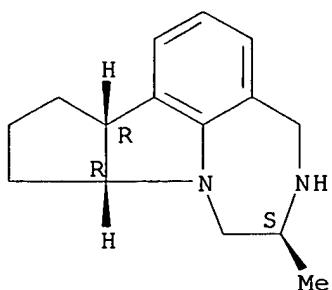
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7a,9,10,10a-octahydro- (9CI) (CA INDEX NAME)

RN 422311-95-3 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-2-methyl-, (2S,7bR,10aR)- (9CI) (CA INDEX NAME)

10/016, 229

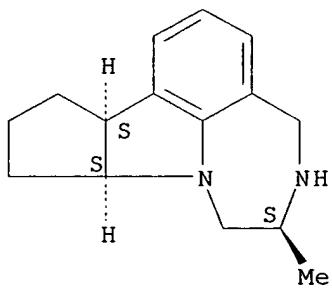
Absolute stereochemistry. Rotation (+).



RN 422311-96-4 CAPLUS

8H-Cyclopenta[4,5]pyrrolo[3,2,1-*jk*][1,4]benzodiazepine,
1,2,3,4,7*b*,9,10,10*a*-octahydro-2-methyl-, (2*S*,7*bS*,10*aS*)- (9CI) (CA INDEX
NAME)

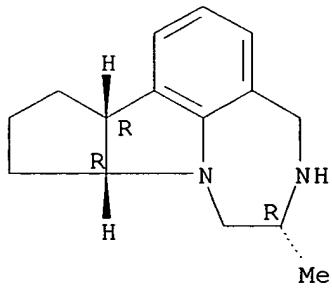
Absolute stereochemistry. Rotation (+).



RN 422311-97-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-2-methyl-, (2R,7bR,10aR)- (9CI) (CA INDEX
NAME)

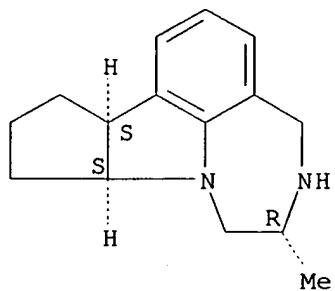
Absolute stereochemistry. Rotation (-).



RN 422311-98-6 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-2-methyl-, (2R,7bS,10aS)- (9CI) (CA INDEX
NAME)

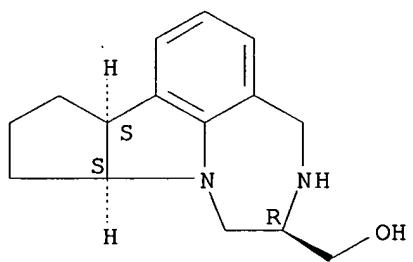
Absolute stereochemistry.



RN 422311-99-7 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-2-methanol,
1,2,3,4,7b,9,10,10a-octahydro-, (2R,7bS,10aS)- (9CI) (CA INDEX NAME)

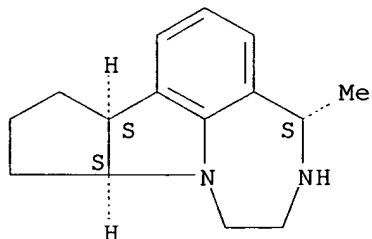
Absolute stereochemistry.



RN 425414-33-1 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-4-methyl-, (4R,7bR,10aR)-rel- (9CI) (CA INDEX NAME)

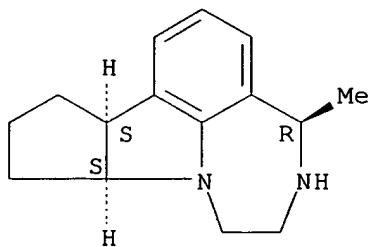
Relative stereochemistry.



RN 425414-34-2 CAPLUS

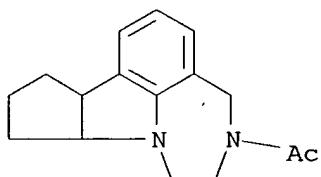
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-4-methyl-, (4R,7bS,10aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 428868-30-8 CAPLUS

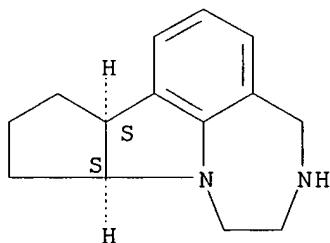
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro- (9CI) (CA INDEX NAME)



RN 428868-31-9 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7a,9,10,10a-octahydro-, (7bS,10aS)- (9CI) (CA INDEX NAME)

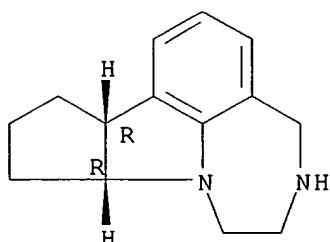
Absolute stereochemistry. Rotation (+).



RN 428868-32-0 CAPLUS

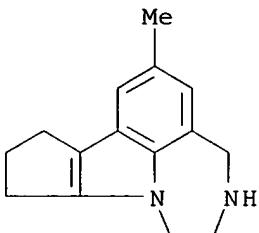
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7a,9,10,10a-octahydro-, (7bR,10aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 432049-99-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,9,10-hexahydro-6-methyl- (9CI) (CA INDEX NAME)



IT 420802-61-5P 420802-85-3P 420802-86-4P

420802-87-5P 422312-09-2P 422312-10-5P

428868-33-1P 428868-34-2P 428868-35-3P

428868-39-7P 428868-42-2P 432050-03-8P

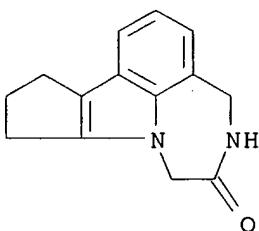
432050-04-9P 432050-07-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of cyclopentadiazepinoindoles as selective 5-HT2c receptor agonists for treatment of schizophrenia and anxiety and depression and obesity)

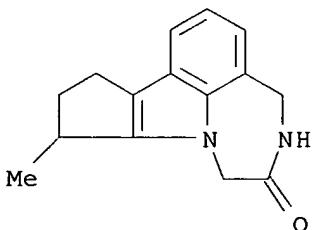
RN 420802-61-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,
3,4,9,10-tetrahydro- (9CI) (CA INDEX NAME)



RN 420802-85-3 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,
3,4,9,10-tetrahydro-10-methyl- (9CI) (CA INDEX NAME)

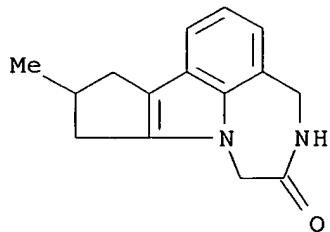


RN 420802-86-4 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,

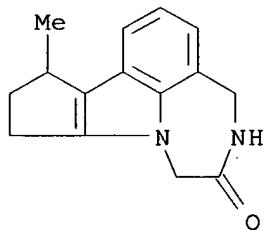
10/016,229

3,4,9,10-tetrahydro-9-methyl- (9CI) (CA INDEX NAME)



RN 420802-87-5 CAPLUS

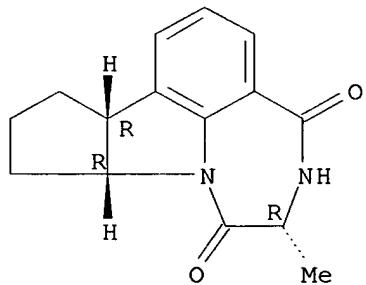
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,
3,4,9,10-tetrahydro-8-methyl- (9CI) (CA INDEX NAME)



RN 422312-09-2 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10,10a-hexahydro-2-methyl-, (2R,7bR,10aR)- (9CI) (CA INDEX NAME)

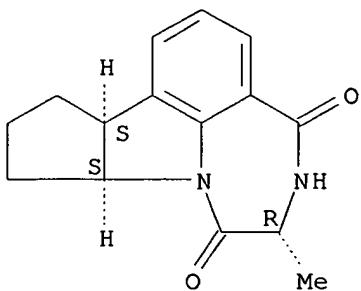
Absolute stereochemistry.



RN 422312-10-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10,10a-hexahydro-2-methyl-, (2R,7bS,10aS)- (9CI) (CA INDEX NAME)

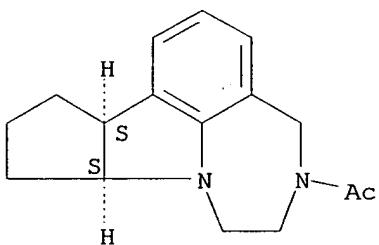
Absolute stereochemistry.



RN 428868-33-1 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro-, (7bS,10aS)- (9CI) (CA INDEX
NAME)

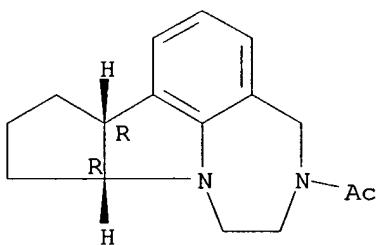
Absolute stereochemistry. Rotation (+).



RN 428868-34-2 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro-, (7bR,10aR)- (9CI) (CA INDEX
NAME)

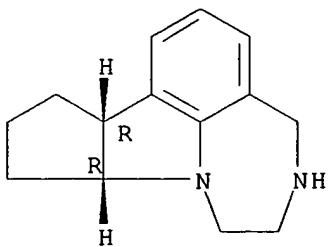
Absolute stereochemistry. Rotation (-).



RN 428868-35-3 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-, monohydrochloride, (7bR,10aR)- (9CI) (CA
INDEX NAME)

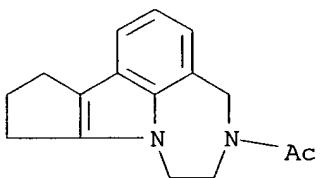
Absolute stereochemistry.



● HCl1

RN 428868-39-7 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-*jk*][1,4]benzodiazepine,
3-acetyl-1,2,3,4,9,10-hexahydro- (9CI) (CA INDEX NAME)



RN 428868-42-2 CAPLUS

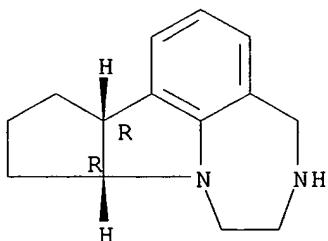
CN Butanedioic acid, 2,3-bis(benzoyloxy)-, (2R,3R)-, compd. with
(7bR,10aR)-1,2,3,4,7a,9,10,10a-octahydro-8H-cyclopenta[4,5]pyrrolo[3,2,1-*jk*][1,4]benzodiazepine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 428868-32-0

CMF C14 H18 N2

Absolute stereochemistry.



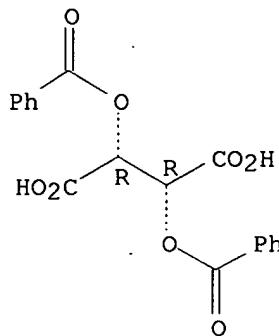
CM 2

CRN 2743-38-6

CMF C18 H14 O8

CDES 1:R2:R*, R*

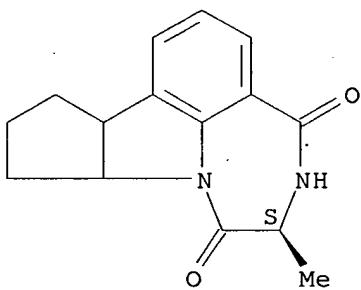
Absolute stereochemistry.



RN 432050-03-8 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10,10a-hexahydro-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

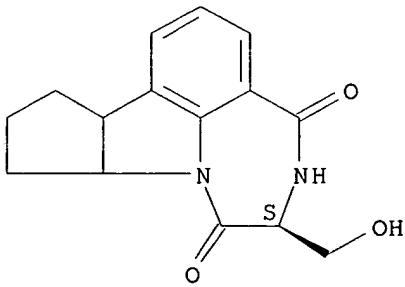
Absolute stereochemistry.



RN 432050-04-9 CAPLUS

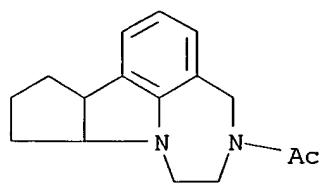
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10,10a-hexahydro-2-(hydroxymethyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 432050-07-2 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro-, monohydrochloride (9CI) (CA
INDEX NAME)



● HCl

L8 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2002 ACS

AN 2002:392263 CAPLUS

DN 136:401790

TI Processes for preparation of cyclopenta[*b*][1,4]diazepino[6,7,1-*hi*]indoles

IN Sabb, Annmarie L.; Vogel, Robert L.; Antane, Madelene M.; Raveendranath,

Panolili; Megati; Sreenivasulu; Smith, Michael D.; Nelson, James A.

PA American Home Products Corporation, USA

SO U.S. Pat. Appl. Publ., 14 pp.

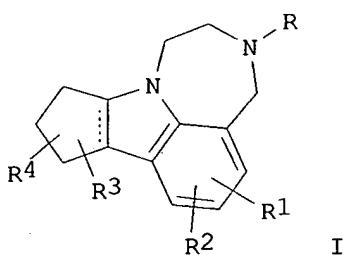
55 5.5. Tech. App.

DT Patent

LA English

—
FAN, CNT 5

PATENT NO.		KIND	DATE	APPLICATION NO.		DATE
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PI	US 2002062022	A1	20020523	US	2001-16420	20011102
PRAI	US 2000-245954P	P	20001103			
OS	CASREACT 136:401790; MARPAT 136:401790					
GI						



AB The title compds. [I; R = H, alkyl; R1, R2 = H, alkyl, alkoxy, halo, etc.; R3, R4 = H, alkyl, cycloalkyl; the dashed line indicates an optional double bond] and their pharmaceutically acceptable salts, which are serotonin 5-HT2C receptor agonists (no biol. data), were prep'd. E.g., a multi-step synthesis of 1,2,3,4,9,10-hexahydro-8H-cyclopenta[b][4,1]diazepino[6,7,1-hi]indole, was given.

IT 420802-62-6P 428868-30-8P 428868-33-1P

428868-34-2P 428868-39-7P 428868-41-1P

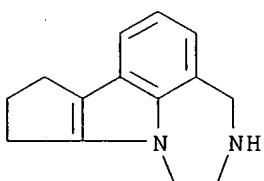
428868-42-2P

RL: IMF (Indu

(processes for prepn. of cyclopenta[b][1,4]diazepino[6,7,1-hi]preparation); PREP (Preparation); RACT (Reactant or reagent)

RN 420802-62-6 CAPLUS

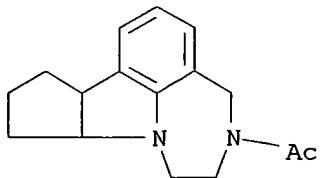
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-*jk*][1,4]benzodiazepine,
1,2,3,4,9,10-hexahydro- (9CI) (CA INDEX NAME)



RN 428868-30-8 CAPLUS

10/016,229

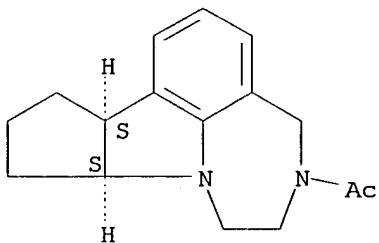
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro- (9CI) (CA INDEX NAME)



RN 428868-33-1 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro-, (7bS,10aS)- (9CI) (CA INDEX
NAME)

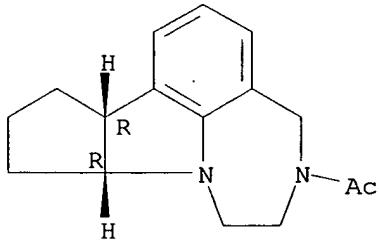
Absolute stereochemistry. Rotation (+).



RN 428868-34-2 CAPLUS

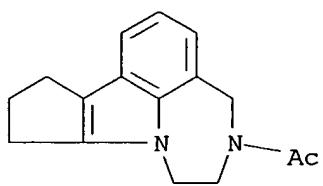
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro-, (7bR,10aR)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry. Rotation (-).



RN 428868-39-7 CAPLUS

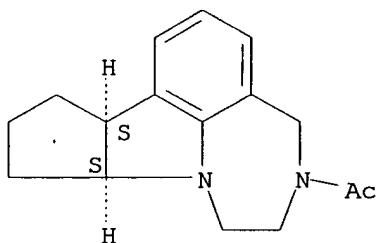
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,9,10-hexahydro- (9CI) (CA INDEX NAME)



RN 428868-41-1 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
3-acetyl-1,2,3,4,7b,9,10,10a-octahydro-, monohydrochloride, (7bS,10aS)-
(9CI) (CA INDEX NAME)

Relative stereochemistry.



● HCl

RN 428868-42-2 CAPLUS

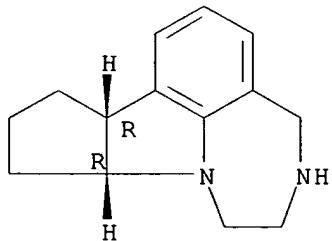
CN Butanedioic acid, 2,3-bis(benzoyloxy)-, (2R,3R)-, compd. with
(7bR,10aR)-1,2,3,4,7a,9,10,10a-octahydro-8H-cyclopenta[4,5]pyrrolo[3,2,1-
jk][1,4]benzodiazepine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 428868-32-0

CMF C14 H18 N2

Absolute stereochemistry.

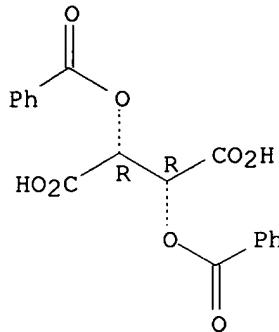


CM 2

CRN 2743-38-6

CMF C18 H14 O8
CDES 1:R2:R*, R*

Absolute stereochemistry.



IT 428868-29-5P 428868-31-9P 428868-32-0P

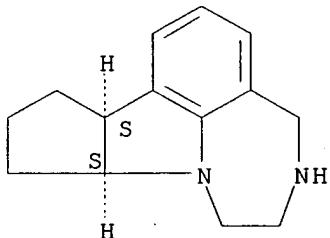
428868-35-3P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)
(processes for prepn. of cyclopenta[b][1,4]diazepino[6,7,1-hi]indoles)

RN 428868-29-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7a,9,10,10a-octahydro-, (7bR,10aR)-rel- (9CI) (CA INDEX NAME)

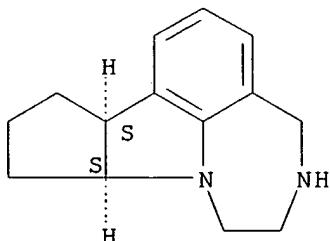
Relative stereochemistry.



RN 428868-31-9 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7a,9,10,10a-octahydro-, (7bS,10aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

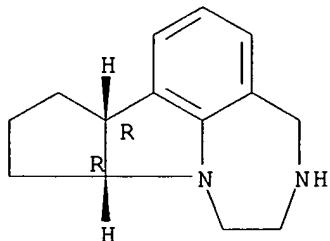


10/016,229

RN 428868-32-0 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-*jk*][1,4]benzodiazepine,
1,2,3,4,7*a*,9,10,10*a*-octahydro-, (7*b*R,10*a*R)- (9CI) (CA INDEX NAME)

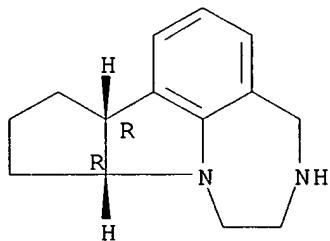
Absolute stereochemistry.



RN 428868-35-3 CAPLUS

8H-Cyclopenta[4,5]pyrrolo[3,2,1-*jk*][1,4]benzodiazepine,
1,2,3,4,7*b*,9,10,10*a*-octahydro-, monohydrochloride, (7*b*R,10*a*R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

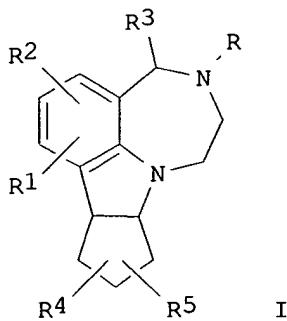


● HCl

L8 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:368996 CAPLUS
 DN 136:369746
 TI Preparation of 1,2,3,4,8,9,10,10a-octahydro-7bH-cyclopenta[b][1,4]diazepino[6,7,1-hi]indoles
 IN Welmaker, Gregory S.; Sabalski, Joan E.; Smith, Michael D.
 PA American Home Products Corporation, USA
 SO U.S. Pat. Appl. Publ., 13 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2002058689	A1	20020516	US 2001-16418	20011102
PRAI US 2000-245843P	P	20001103		
OS MARPAT 136:369746				

GI

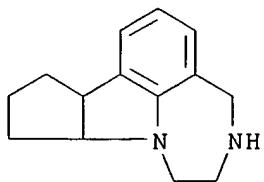


AB Title compds. I [wherein R = H, alkyl, acyl, aryl, aroyl, or -C(O)R'; R' = alkyl or aryl, preferably Ph; R1, R2, R4 and R5 = independently H, OH, (cyclo)alkyl, alkoxy, halo, fluorinated alkyl or alkoxy, CN, alkylsulfonylamino, alkylsulfonamido, alkylamido, (di)alkyl(amino), acyl, aryl, or aroyl; R3 = H, (cyclo)alkyl, alkoxy, fluorinated alkyl, alkylsulfonylamino, alkylsulfonamido, alkylamido, (di)alkyl(amino), fluorinated alkoxy, acyl, aryl, or aroyl; or a pharmaceutically acceptable salt thereof] were prep'd. from 2-(2,3,3a,8b-tetrahydro-1H-cyclopenta[b]indol-4-yl)ethylamines. For example, Ph hydrazine was treated with cyclopentanone under std. Fischer-indole conditions to give 1,2,3,4-tetrahydrocyclopenta[b]indole (80%). Hydrogenation using Pd/C in concd. HCl (69%), followed by N-alkylation with 2-chloroacetamide (69%), and redn. using BH3.bul.THF, afforded 2-(2,3,3a,8b-tetrahydrocyclopenta[b]indol-4(1H)-yl)ethylamine. Cycloaddn. of the ethylamine with formaldehyde in EtOH and TFA gave the diazabenzo[cd]cyclopenta[a]azulene I (R-R5 = H). I are 5-hydroxytryptamine 2C (5HT2C) receptor agonists useful for the prevention and treatment of central nervous system disorders (no data).

IT 420802-63-7P 425414-33-1P 425414-34-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of octahydrocyclopenta[b][1,4]diazepino[6,7,1-hi]indoles from (tetrahydrocyclopentaindolyl)ethylamines as central nervous system agents)
 RN 420802-63-7 CAPLUS

10/016,229

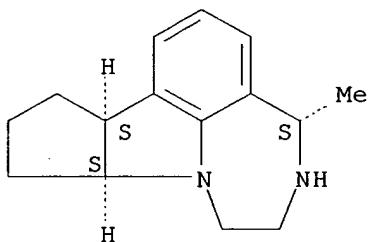
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7a,9,10,10a-octahydro- (9CI) (CA INDEX NAME)



RN 425414-33-1 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-4-methyl-, (4R,7bR,10aR)-rel- (9CI) (CA
INDEX NAME)

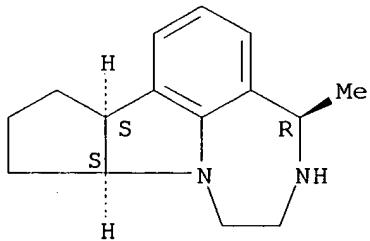
Relative stereochemistry.



RN 425414-34-2 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-4-methyl-, (4R,7bS,10aS)-rel- (9CI) (CA
INDEX NAME)

Relative stereochemistry.



L8 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2002 ACS

AN 2002:354096 CAPLUS

DN 136:355364

TI Preparation of cyclopenta[b][1,4]diazepino[6,7,1-hi]indole derivatives for the treatment of central nervous system disorders

IN Welmaker, Gregory S.; Sabalski, Joan E.

PA American Home Products Corporation, USA

SO U.S. Pat. Appl. Publ., 11 pp.

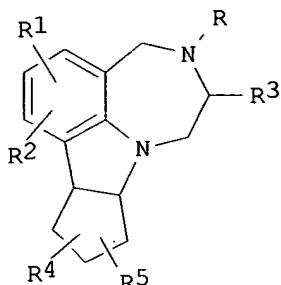
CODEN: USXXCO

DT Patent

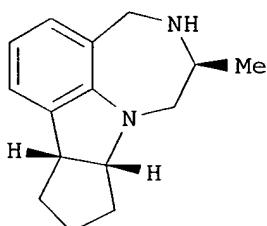
LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002055630	A1	20020509	US 2001-16435	20011102
	US 6414144	B2	20020702		
PRAI	US 2000-245915P	P	20001103		
OS	CASREACT 136:355364; MARPAT 136:355364				
GI					



I



II

AB Cyclopenta[b][1,4]diazepino[6,7,1-hi]indole derivs. of formula I [R = H, alkyl, acyl, or aroyl; R1, R2, R4, R5 = H, OH, alkyl, cycloalkyl, alkoxy, halo, fluorinated alkyl, CN, NHSO₂-alkyl, amino, aryl, aroyl, etc.; R3 = H, alkyl, cycloalkyl, alkoxy, etc.] are prep'd. The compds. are useful in the treatment of central nervous system disorders (no data). Thus, II was prep'd. in 6 steps from 2-hydrazinobenzoic acid hydrochloride, cyclopentanone and L-alanine Et ester.

IT 422311-95-3P 422311-96-4P 422311-97-5P

422311-98-6P 422311-99-7P

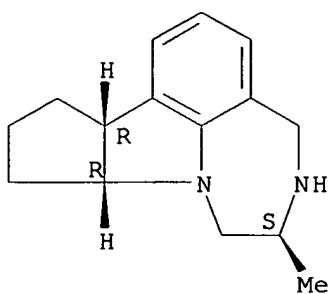
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of cyclopenta[b][1,4]diazepino[6,7,1-hi]indole derivs. for the treatment of central nervous system disorders)

RN 422311-95-3 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-2-methyl-, (2S,7bR,10aR)- (9CI) (CA INDEX NAME)

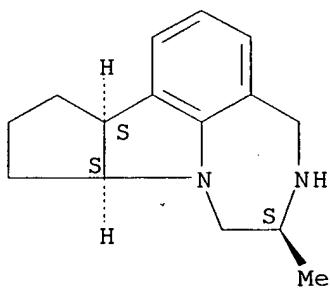
Absolute stereochemistry. Rotation (+).



RN 422311-96-4 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-2-methyl-, (2S,7bS,10aS)- (9CI) (CA INDEX
NAME)

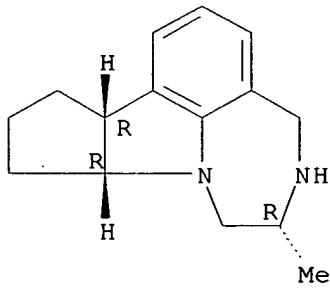
Absolute stereochemistry. Rotation (+).



RN 422311-97-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-2-methyl-, (2R,7bR,10aR)- (9CI) (CA INDEX
NAME)

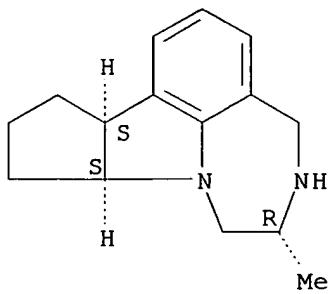
Absolute stereochemistry. Rotation (-).



RN 422311-98-6 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,10a-octahydro-2-methyl-, (2R,7bS,10aS)- (9CI) (CA INDEX
NAME)

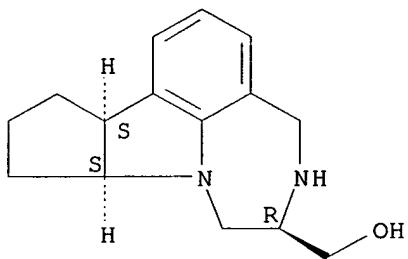
Absolute stereochemistry.



RN 422311-99-7 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-2-methanol,
1,2,3,4,7b,9,10,10a-octahydro-, (2R,7bS,10aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 422312-04-7P 422312-05-8P 422312-09-2P

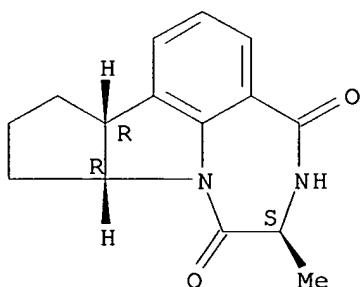
422312-10-5P 422312-15-0P 422312-16-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of cyclopenta[b][1,4]diazepino[6,7,1-hi]indole derivs. for the treatment of central nervous system disorders)

RN 422312-04-7 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10,10a-hexahydro-2-methyl-, (2S,7bR,10aR)- (9CI) (CA INDEX NAME)

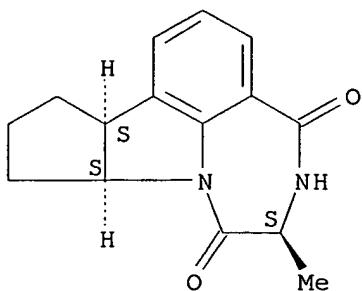
Absolute stereochemistry.



RN 422312-05-8 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10,10a-hexahydro-2-methyl-, (2S,7bS,10aS)- (9CI) (CA INDEX NAME)

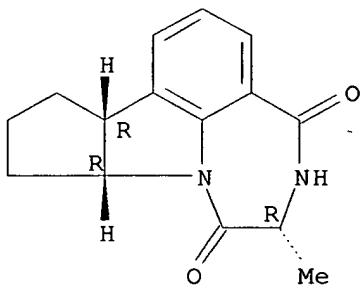
Absolute stereochemistry.



RN 422312-09-2 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10a-hexahydro-2-methyl-, (2R,7bR,10aR)- (9CI) (CA INDEX NAME)

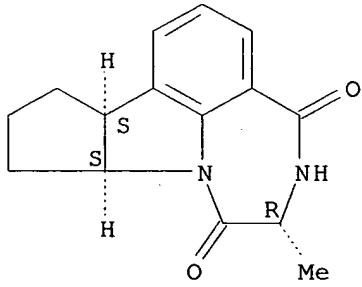
Absolute stereochemistry.



RN 422312-10-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10a-hexahydro-2-methyl-, (2R,7bS,10aS)- (9CI) (CA INDEX NAME)

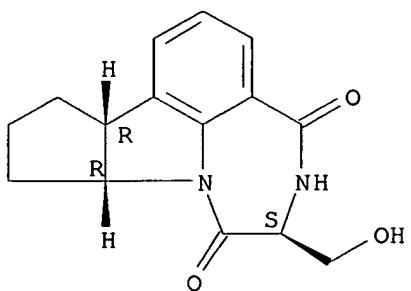
Absolute stereochemistry.



RN 422312-15-0 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10a-hexahydro-2-(hydroxymethyl)-, (2S,7bR,10aR)- (9CI) (CA INDEX NAME)

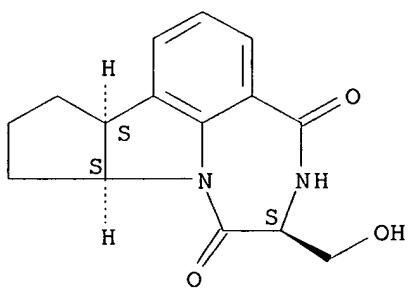
Absolute stereochemistry.



RN 422312-16-1 CAPIUS

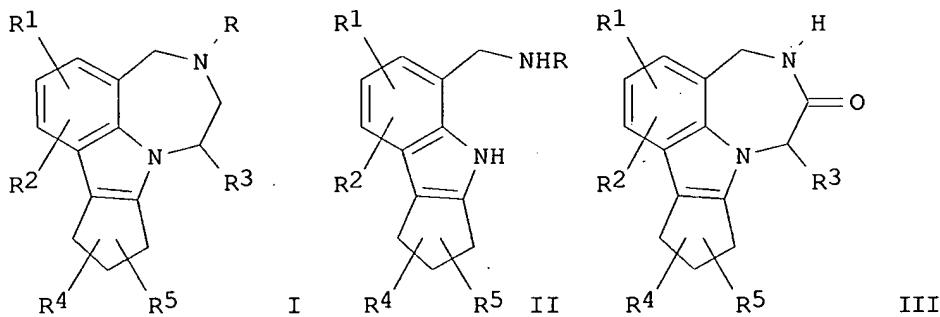
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine-1,4-dione,
2,3,7b,9,10,10a-hexahydro-2-(hydroxymethyl)-, (2S,7bS,10aS)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:354075 CAPLUS
 DN 136:355253
 TI Process for the preparation of 1,2,3,4,8,9,10,10a-octahydro-7bH-cyclopenta[b][1,4]diazepino[6,7,1-hi]indole derivatives
 IN Chan, Anita W-y.
 PA USA
 SO U.S. Pat. Appl. Publ., 16 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2002055504	A1	20020509	US 2001-16229	20011102
PRAI US 2000-245591P	P	20001103		
OS CASREACT 136:355253; MARPAT 136:355253				
GI				



AB This invention provides a process for the prepn. of 1,2,3,4,8,9,10,10a-octahydro-7bH-cyclopenta[b][1,4]diazepino[6,7,1-hi]indole derivs. of the general formula (I) (wherein R = H, alkyl, cycloalkyl, CH₂-cycloalkyl, acyl, aryl or aroyl; R₁, R₂, R₄, R₅ = H, hydroxy, alkyl, cycloalkyl, alkoxy, halogen, fluorinated alkyl, cyano, NHSO₂-alkyl, SO₂NH-alkyl, alkyl amide, amino, alkylamino, dialkylmino, fluorinated alkoxy, acyl, aryl or aroyl; R₃ = H, alkyl, cycloalkyl, alkoxy, fluorinated alkyl, alkyl sulfonamide, alkyl amide, amino, alkylamino, dialkylmino, fluorinated alkoxy, acyl, aryl or aroyl) or a pharmaceutically acceptable salt thereof, as well as intermediates for their synthesis. A process for prepn. of I comprises acylation of cyclopentaindolemethylamine derivs. (II; R = H; R₁, R₂, R₄, R₅ = same as above) with LCOCH(R₃)L (R₃ = same as above; L = a leaving group), cyclization of the resulting II [R = COCH(R₃)L; L, R₁, R₂, R₄, R₅ = same as above] to diazabeno[cd]cyclopenta[a]azulen-6-one derivs. (III; R₁-R₅ = same as above), and redn. of III to II (R = H; R₁-R₅ = same as above), followed by optional N-alkylation. These compds. are useful as serotonin 5-hydroxytryptamine 2C (5HT2C) receptor agonists for the treatment of central nervous system disorders, including obsessive-compulsive disorder, depression, anxiety, generalized anxiety disorder, schizophrenia, panic disorder, migraine, sleep disorders such as sleep apnea, eating disorders such as hyperphagia, obesity, epilepsy, and spinal cord injury (no data). Thus, a soln. of 1,2,3,4-tetrahydrocyclopenta[b]indol-5-ylmethylamine (100 mg) and pyridine (0.1 mL) in CH₂Cl₂ (2 mL) was cooled to 0-5.degree. in an

ice-bath, treated with chloroacetyl chloride (62 μ L), stirred in the ice-bath for 1 h, warmed to room temp., and stirred for 12 h to give 57% 2-chloro-N-[1,2,3,4-tetrahydrocyclopenta[b]indol-5-ylmethyl]acetamide (IV). A soln. of IV (135 mg) in DMF (3 mL) was added to a suspension of NaH (124 mg) in DMF (3 mL) and allowed to react for 16 h to give 58% 3,4,9,10-tetrahydro-8H-cyclopenta[b][1,4]diazepino[6,7,1-hi]indol-2(1H)-one (V). To a suspension of 67 mg V in 7 mL Et₂O was added slowly 28 mg LiAlH₄ at room temp. and allowed to react for 16 h to give 70% 3,4,9,10-tetrahydro-8H-cyclopenta[b][4]diazepino[6,7,1-hi]indole, i.e. I (R-R₅ = H), which (61 mg) was dissolved in CF₃CO₂H (2 mL), cooled in an ice-bath, treated slowly with BH₃.THF (0.7 mL), and allowed to react for 4 h to give 1,2,3,4,8,9,10,10a-octahydro-7bH-cyclopenta[b][4,1]diazepino[6,7,1-hi]Indole.

IT 420802-63-7P 420802-85-3P 420802-86-4P

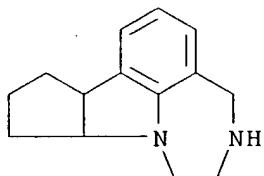
420802-87-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of octahydrocyclo[b][1,4]diazepino[hi]indoles via N-acylation of tetrahydrocyclopentaindolylmethylamines and cyclization of (acylaminomethyl)tetrahydrocyclopentaindoles to tetrahydrocyclopenta[b][1,4]diazepino[6,7,1-hi]indolones)

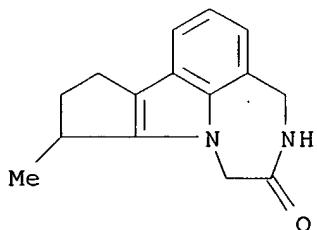
RN 420802-63-7 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7a,9,10,10a-octahydro- (9CI) (CA INDEX NAME)



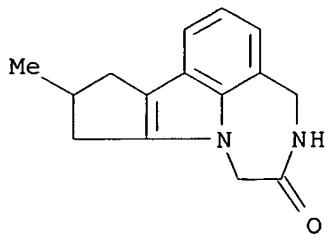
RN 420802-85-3 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,
3,4,9,10-tetrahydro-10-methyl- (9CI) (CA INDEX NAME)



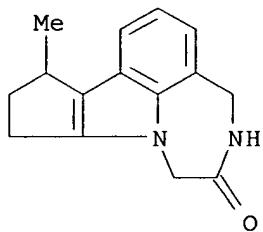
RN 420802-86-4 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,
3,4,9,10-tetrahydro-9-methyl- (9CI) (CA INDEX NAME)



RN 420802-87-5 CAPLUS

CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,
3,4,9,10-tetrahydro-8-methyl- (9CI) (CA INDEX NAME)

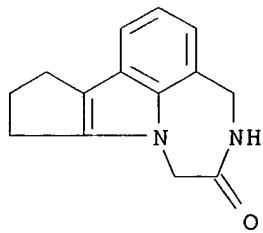


IT 420802-61-5P 420802-62-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of octahydrocyclo[b][1,4]diazepino[hi]indoles via N-acylation of tetrahydrocyclopentaindolylmethylamines and cyclization of (acylaminomethyl)tetrahydrocyclopentaindoles to tetrahydrocyclopenta[b][1,4]diazepino[6,7,1-hi]indolones)

RN 420802-61-5 CAPLUS

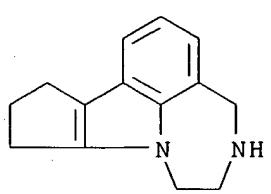
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepin-2(1H)-one,
3,4,9,10-tetrahydro- (9CI) (CA INDEX NAME)



RN 420802-62-6 CAPLUS

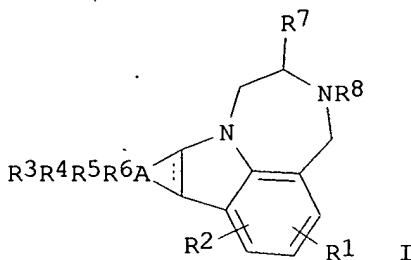
CN 8H-Cyclopenta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,9,10-hexahydro- (9CI) (CA INDEX NAME)

10/016, 229



L8 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:353459 CAPLUS
 DN 136:355252
 TI Preparation of diazepinocarbazoles and related compounds as serotonin 5-HT2C agonists.
 IN Sabb, Annmarie Louise; Vogel, Robert Lewis; Welmaker, Gregory Scott; Sabalski, Joan Eileen
 PA Wyeth, John, and Brother Ltd., USA
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

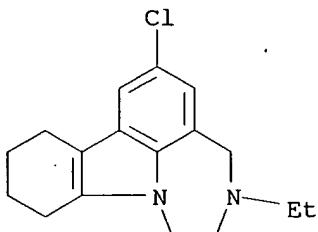
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002036596	A2	20020510	WO 2001-US46084	20011101
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2002086860	A1	20020704	US 2001-17738	20011102
PRAI	US 2000-245598P	P	20001103		
	US 2000-245599P	P	20001103		
	US 2000-245602P	P	20001103		
OS	MARPAT	136:355252			
GI					



AB A method of treatment of obsessive-compulsive disorder, obesity, eating disorders, sleeping disorders, migraine, depression, generalized anxiety disorder, schizophrenia, panic disorder, migraine, epilepsy or anxiety in a mammal, the method comprises administration of title compds. (I; A = 6-8 membered cycloalkyl ring; R1, R2 = H, alkyl, cycloalkyl, cycloalkylmethyl, alkoxy, halo, fluoroalkyl, cyano, alkylaminosulfonyl, amino, fluoroalkoxy, aroyl, heteroaroyl etc.; R3-R6 = H, alkyl, cycloalkyl, cycloalkylmethyl, alkoxy, cycloalkoxy; R7, R8 = H, alkyl; dashed line = optional double bond). Thus, 4-acetyl-2,3,4,5-tetrahydro-1H-1,4-benzodiazepine (prepn. given) in aq. HCl was treated with NaNO₂ under ice cooling to give an oil which in HOAc was treated with Zn. The resulting mixt. was filtered into a flask contg. cyclohexanone followed by heating for 1.5 h to give 3-acetyl-1,2,3,4,8,9,10,11-octahydro[1,4]diazepino[6,7,1-jk]carbazole.

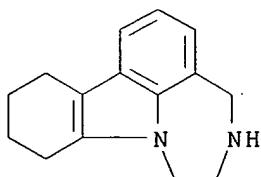
The latter was refluxed 4 h with conc. HCl to give 1,2,3,4,8,9,10,11-octahydro[1,4]diazepino[6,7,1-jk]carbazole hydrochloride. This reduced food intake in rats with ED50 = 20.86 mg/kg i.p.

IT 57716-82-2P 57756-44-2P 57756-45-3P
57756-54-4P 59705-12-3P 422318-14-7P
422318-15-8P 422318-16-9P 422318-17-0P
422318-18-1P 422318-19-2P 422318-20-5P
422318-21-6P 422318-22-7P 422318-23-8P
422318-24-9P 422318-25-0P 422318-26-1P
422318-27-2P 422318-28-3P 422318-29-4P
422318-30-7P 422318-33-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of diazepinocarbazoles and related compds. as serotonin 5HT2C agonists)
RN 57716-82-2 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 6-chloro-3-ethyl-1,2,3,4,8,9,10,11-octahydro-, monohydrochloride (9CI) (CA INDEX NAME)



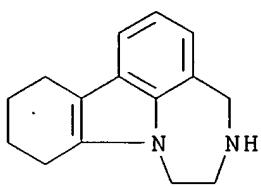
● HCl

RN 57756-44-2 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-, monohydrochloride (9CI) (CA INDEX NAME)

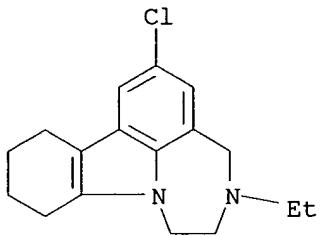


● HCl

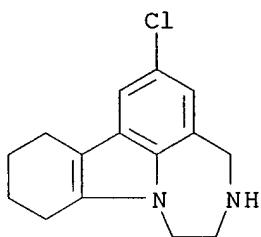
RN 57756-45-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



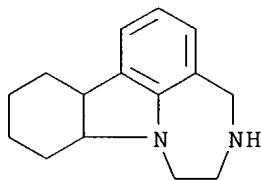
RN 57756-54-4 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 6-chloro-3-ethyl-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



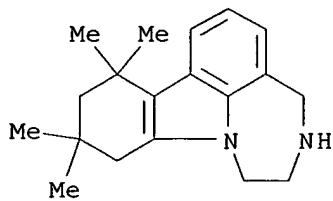
RN 59705-12-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 6-chloro-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



RN 422318-14-7 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,7b,8,9,10,11,11a-decahydro- (9CI) (CA INDEX NAME)

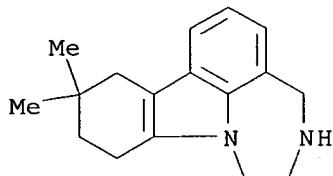


RN 422318-15-8 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-8,8,10,10-tetramethyl- (9CI) (CA INDEX NAME)



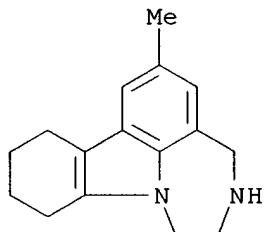
RN 422318-16-9 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-9,9-dimethyl- (9CI) (CA INDEX NAME)



RN 422318-17-0 CAPLUS

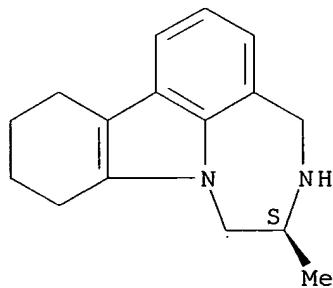
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-6-methyl- (9CI) (CA INDEX NAME)



RN 422318-18-1 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



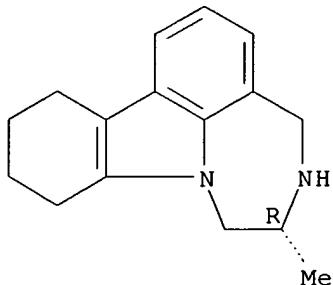
RN 422318-19-2 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-2-methyl-,

10/016,229

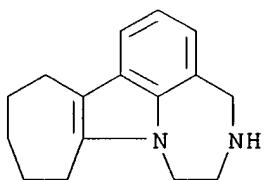
(2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



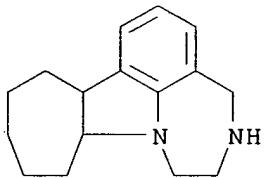
RN 422318-20-5 CAPLUS

CN 8H-Cyclohepta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,9,10,11,12-octahydro- (9CI) (CA INDEX NAME)



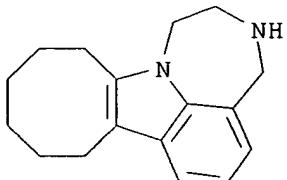
RN 422318-21-6 CAPLUS

CN 8H-Cyclohepta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,7b,9,10,11,12,12a-decahydro- (9CI) (CA INDEX NAME)



RN 422318-22-7 CAPLUS

CN Cycloocta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,
1,2,3,4,8,9,10,11,12,13-decahydro- (9CI) (CA INDEX NAME)

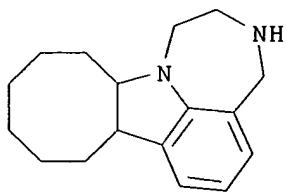


RN 422318-23-8 CAPLUS

CN Cycloocta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine,

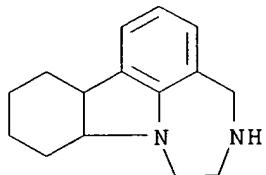
10/016,229

1,2,3,4,7b,8,9,10,11,12,13,13a-dodecahydro- (9CI) (CA INDEX NAME)



RN 422318-24-9 CAPLUS

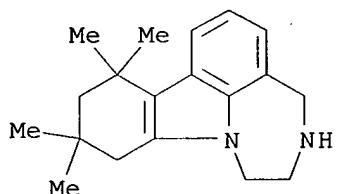
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,7b,8,9,10,11,11a-decahydro-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 422318-25-0 CAPLUS

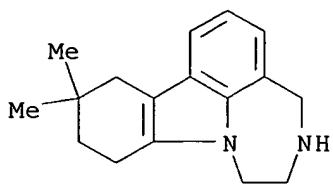
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-8,8,10,10-tetramethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 422318-26-1 CAPLUS

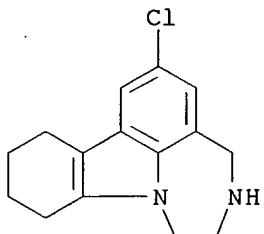
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-9,9-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 422318-27-2 CAPLUS

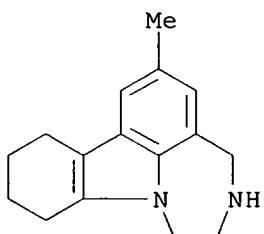
CN [1,4]Diazepino[6,7,1-jk]carbazole, 6-chloro-1,2,3,4,8,9,10,11-octahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 422318-28-3 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-6-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



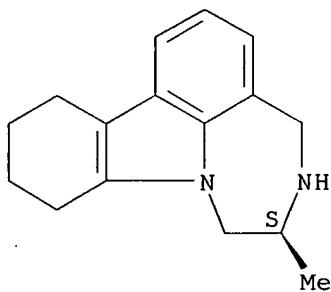
● HCl

RN 422318-29-4 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-2-methyl-, monohydrochloride, (2S)- (9CI) (CA INDEX NAME)

10/016, 229

Absolute stereochemistry.

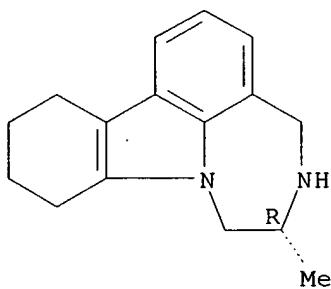


● HCl

RN 422318-30-7 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-2-methyl-, monohydrochloride, (2R)- (9CI) (CA INDEX NAME)

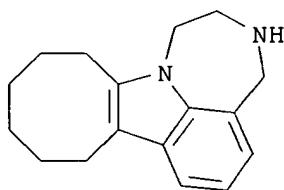
Absolute stereochemistry.



● HCl

RN 422318-33-0 CAPLUS

CN Cycloocta[4,5]pyrrololo[3,2,1-jk][1,4]benzodiazepine, 1,2,3,4,8,9,10,11,12,13-decahydro-, monohydrochloride (9CI) (CA INDEX NAME)



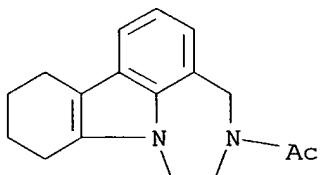
HCl

IT 57756-41-9P 57756-42-0P 422318-34-1P
422318-37-4P 422318-41-0P 422318-44-3P
422318-45-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of diazepinocarbazoles and related compds. as serotonin 5HT2C agonists)

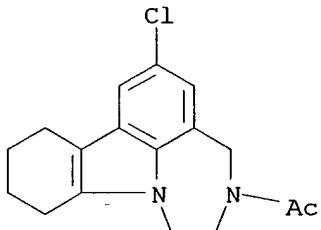
RN 57756-41-9 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



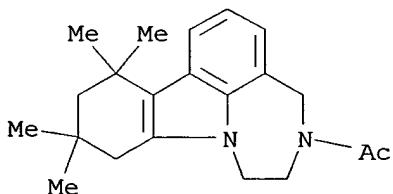
RN 57756-42-0 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-6-chloro-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



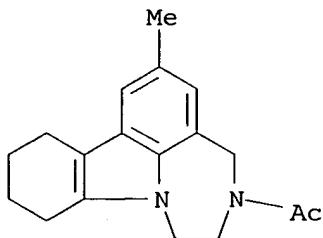
RN 422318-34-1 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4,8,9,10,11-octahydro-8,8,10,10-tetramethyl- (9CI) (CA INDEX NAME)



RN 422318-37-4 CAPLUS

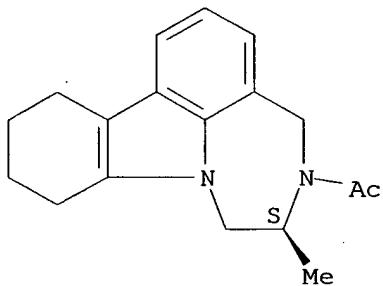
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4,8,9,10,11-octahydro-6-methyl- (9CI) (CA INDEX NAME)



RN 422318-41-0 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4,8,9,10,11-octahydro-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

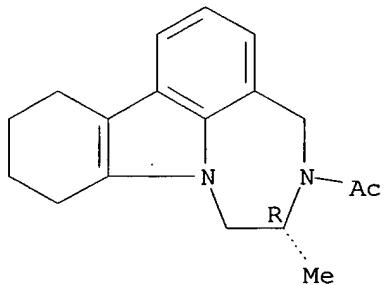
Absolute stereochemistry.



RN 422318-44-3 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4,8,9,10,11-octahydro-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

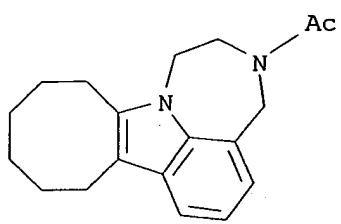
Absolute stereochemistry.



RN 422318-45-4 CAPLUS

CN Cycloocta[4,5]pyrrolo[3,2,1-jk][1,4]benzodiazepine, 3-acetyl-1,2,3,4,8,9,10,11,12,13-decahydro- (9CI) (CA INDEX NAME)

10/016, 229



L8 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:453066 CAPLUS
 DN 135:61239
 TI Preparation of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative diseases
 IN Al-Awar, Rima Salim; Hecker, Kyle Andrew; Huang, Jianping; Joseph, Sajan; Li, Tiechao; Paal, Michael; Rathnachalam, Radhakrishnan; Ray, James Edward; Shih, Chuan; Waid, Philip Parker; Zhou, Xun; Zhu, Guoxin
 PA Eli Lilly and Company, USA
 SO PCT Int. Appl., 261 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001044247	A2	20010621	WO 2000-US33273	20001218
	WO 2001044247	A3	20020103		
				W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
PRAI	US 1999-171087P	P	19991216		
	US 1999-171220P	P	19991216		
OS	CASREACT 135:61239; MARPAT 135:61239				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; A, B = O, S; X, Y = H; or X and Y, taken together, form a bond; R1 = H, alkyl; R2 = halo, CN, alkyl, etc.; R3 = aryl, heteroaryl, etc.; R4 = H, alkyl, etc.; R5 = halo, CN, alkyl, etc.; R6 = alkyl; R7 = alkoxy carbonyl, $(CH_2)_mZ$ ($m = 0-5$; Z = halo, OH, etc.); Q1 = O, SOn ($n = 0-2$), $(CH_2)_1-3$; Q2 = carbon-carbon single or double bond, etc.; Q3 = $(CH_2)_1-3$], useful for inhibiting CDK4, were prep'd. and formulated. E.g., a multi-step synthesis of II which showed activity (0.1055 μ M) in assay of cyclin D1-CDK4 kinase with the ING peptide as substrate, and also was found to inhibit cell growth and Rb (retinoblastoma protein) phosphorylation, was given.

IT 345261-34-9P 345262-55-7P 345262-56-8P
 345262-59-1P 345262-63-7P 345262-82-0P
 345262-85-3P 345262-98-8P 345263-00-5P
 345263-02-7P 345263-06-1P 345263-22-1P
 345263-25-4P 345263-28-7P 345263-32-3P
 345263-34-5P 345263-38-9P 345263-44-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative diseases)

RN 345261-34-9 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-2-propanoic acid, 3-[(1,1-dimethylethoxy)carbonyl]-1,2,3,4,8,9,10,15-octahydro-8,10-dioxo-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-55-7 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 2-[(1,1-dimethylethoxy)methyl]-1,2,8,9,10,15-hexahydro-8,10-dioxo-, 1,1-dimethylethyl ester, (2R)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-56-8 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 2-[(1,1-dimethylethoxy)methyl]-1,2,3,4-tetrahydro-, monohydrochloride, (2R)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-59-1 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-2-methyl-8,10-dioxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-63-7 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-2-[(4-hydroxyphenyl)methyl]-8,10-dioxo-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-82-0 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-8,10-dioxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-85-3 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 13-fluoro-1,2,8,9,10,15-hexahydro-8,10-dioxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-98-8 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 2-[4-[(1,1-dimethylethoxy)carbonyl]methylamino]butyl]-1,2,8,9,10,15-hexahydro-8,10-dioxo-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-00-5 CAPLUS

CN Carbamic acid, [(1S)-2-(1,2,8,9,10,15-hexahydro-2-methyl-8,10-dioxo[1,4]diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazol-3(4H)-yl)-1-methyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-02-7 CAPLUS
CN Carbamic acid, [(1S)-2-(1,2,8,9,10,15-hexahydro-2-methyl-8,10-dioxo[1,4]diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazol-3(4H)-yl)-2-oxo-1-(3-pyridinylmethyl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-06-1 CAPLUS
CN Carbamic acid, [(1S)-2-(1,2,8,9,10,15-hexahydro-8,10-dioxo[1,4]diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazol-3(4H)-yl)-2-oxo-1-(3-pyridinylmethyl)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-22-1 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-15-methyl-8,10-dioxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-25-4 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-8,10-dioxo-12-phenoxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-28-7 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 12,13-difluoro-1,2,8,9,10,15-hexahydro-8,10-dioxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-32-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-8,10-dioxo-13-(trifluoromethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-34-5 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 12-fluoro-1,2,8,9,10,15-hexahydro-8,10-dioxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-38-9 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-8,10-dioxo-14-[2-[[tris(1-methylethyl)silyl]oxy]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 345263-44-7 CAPLUS
CN Carbamic acid, [2-(1,2,8,9,10,15-hexahydro-8,10-dioxo[1,4]diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazol-3(4H)-yl)-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 345262-57-9P 345262-60-4P 345262-64-8P

345262-83-1P 345262-86-4P 345262-99-9P
345263-01-6P 345263-03-8P 345263-05-0P
345263-07-2P 345263-08-3P 345263-09-4P
345263-10-7P 345263-11-8P 345263-12-9P
345263-23-2P 345263-26-5P 345263-29-8P
345263-33-4P 345263-35-6P 345263-39-0P
345263-40-3P 345263-41-4P 345263-42-5P
345263-43-6P 345263-45-8P 345263-91-4P
345263-93-6P 345263-96-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative diseases)

RN 345262-57-9 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-2-(hydroxymethyl)-, monohydrochloride, (2R)-(9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-60-4 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-64-8 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-2-[(4-hydroxyphenyl)methyl]-, monohydrochloride, (2S)-(9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-83-1 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-86-4 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 13-fluoro-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345262-99-9 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-2-[4-(methylamino)butyl]-, dihydrochloride, (2S)-(9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-01-6 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 3-[(2S)-2-amino-1-oxopropyl]-1,2,3,4-tetrahydro-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-03-8 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-

dione, 3-[(2S)-2-amino-1-oxo-3-(3-pyridinyl)propyl]-1,2,3,4-tetrahydro-2-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-05-0 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 3-[(2S)-2,6-diamino-1-oxohexyl]-1,2,3,4-tetrahydro-2-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-07-2 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 3-[(2S)-2-amino-1-oxo-3-(3-pyridinyl)propyl]-1,2,3,4-tetrahydro-, dihydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-08-3 CAPLUS

CN 11H,13H,15H-Indolo[2,3-a]oxazolo[4',3':3,4][1,4]diazepino[6,7,1-jk]pyrrolo[3,4-c]carbazole-5,7,13(6H,18H)-trione, 15a,16-dihydro-, (15aR)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-09-4 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-3-(methylsulfonyl)-2-[(methylsulfonyl)oxy]methyl]-, (2R)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-10-7 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-2-(hydroxymethyl)-3-(4-pyridinylcarbonyl)-, (2R)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-11-8 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-2-propanoic acid, 1,2,3,4,8,9,10,15-octahydro-8,10-dioxo-, methyl ester, monohydrochloride, (2S)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-12-9 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-2-propanoic acid, 1,2,3,4,8,9,10,15-octahydro-8,10-dioxo-, monohydrochloride, (2S)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-23-2 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-15-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-26-5 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-12-phenoxy-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

10/016,229

RN 345263-29-8 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 12,13-difluoro-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-33-4 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-13-(trifluoromethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-35-6 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 12-fluoro-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-39-0 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-14-(2-hydroxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-40-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-3-(methylsulfonyl)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-41-4 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-3-[(1-methyl-1H-imidazol-4-yl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-42-5 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-3-(1-methylethyl)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-43-6 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-3-(1-methylethyl)-, monomethanesulfonate (9CI) (CA INDEX NAME)

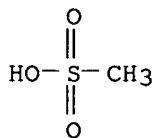
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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 75-75-2
CMF C H4 O3 S



RN 345263-45-8 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 3-(aminoacetyl)-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-91-4 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-14-(3-hydroxypropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-93-6 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-13-(3-hydroxypropyl)-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345263-96-9 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-14-(hydroxymethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 345265-34-1 345265-35-2 345265-36-3
 345265-37-4 345265-38-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative diseases)

RN 345265-34-1 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345265-35-2 CAPLUS
 CN Carbamic acid, [(1S)-1-[(1,2,8,9,10,15-hexahydro-2-methyl-8,10-dioxo[1,4]diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazol-3(4H)-yl)carbonyl]-1,5-pentanediyl]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345265-36-3 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345265-37-4 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-3(4H)-carboxylic acid, 1,2,8,9,10,15-hexahydro-2-(hydroxymethyl)-8,10-dioxo-, 1,1-dimethylethyl ester, (2R)- (9CI) (CA INDEX NAME)

10/016,229

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 345265-38-5 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H,15H)-dione, 1,2,3,4-tetrahydro-2-(hydroxymethyl)-, (2R)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

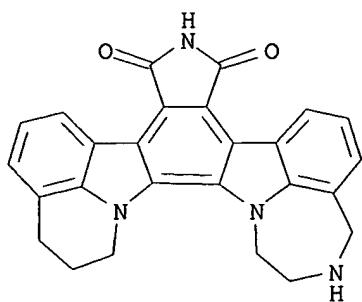
10/016,229

L8 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN 2001:453056 CAPLUS
DN 135:61238
TI Preparation of maleimide and carbazole derivatives for the treatment of proliferative diseases
IN Al-Awar, Rima Salim; Hecker, Kyle Andrew; Huang, Jianping; Joseph, Sajan; Ray, James Edward; Waid, Philip Parker
PA Eli Lilly and Company, USA
SO PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001044235	A2	20010621	WO 2000-US33274	20001218
	WO 2001044235	A3	20020117		
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PRAI	US 1999-171219P	P	19991216		
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OS	MARPAT	135:61238			
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

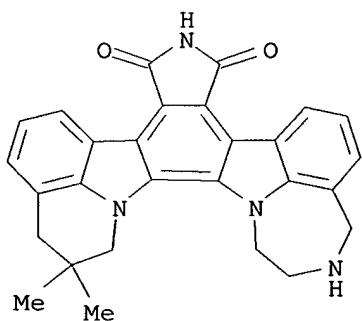
AB The title compds. [I; A, B = O, S; X, Y = H; or X and Y, taken together, form a bond; R1 = H, alkyl; R5, R51 = halo, CN, alkyl, etc.; R6, R61 = alkyl; R7, R71 = alkoxy carbonyl, (CH₂)_mZ; Z = halo, OH, CO₂H, etc.; Q1, Q6 = O, SOn, (CH₂)₁₋₃; Q2, Q5 = carbon-carbon single or double bond, NH, etc.; Q3, Q4 = (CH₂)₁₋₃; m = 0-5; n = 0-2], useful for inhibiting CDK4, were prep'd. and formulated. E.g., a multi-step synthesis of II.HCl which showed activity (0.6051 .mu.M) in assay of cyclin D1-cdk4 kinase with the ING peptide as substrate, was given. Some of compds. I were found to inhibit cell growth and to inhibit Rb (retinoblastoma protein) phosphorylation.
IT 345333-99-5P 345334-05-6P 345334-17-0P
345334-29-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of maleimide and carbazole derivs. for the treatment of proliferative diseases)
RN 345333-99-5 CAPLUS
CN 8H,14H-[1,4]Diazepino[6,7,1-jk]pyrido[1',2',3':1,7]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H)-dione, 1,2,3,4,15,16-hexahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 345334-05-6 CAPLUS

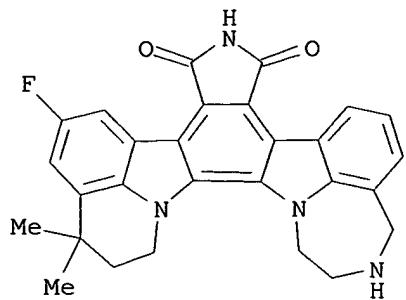
CN 8H,14H-[1,4]Diazepino[6,7,1-jk]pyrido[1',2',3':1,7]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H)-dione, 1,2,3,4,15,16-hexahydro-15,15-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 345334-17-0 CAPLUS

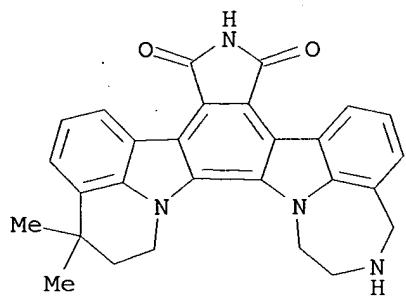
CN 8H,14H-[1,4]Diazepino[6,7,1-jk]pyrido[1',2',3':1,7]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H)-dione, 12-fluoro-1,2,3,4,15,16-hexahydro-14,14-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

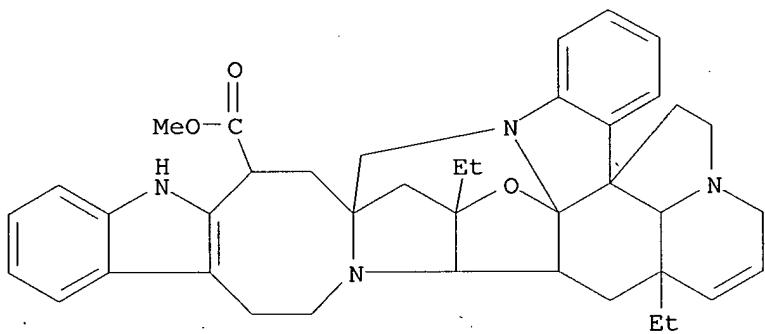
RN 345334-29-4 CAPLUS

8H,14H-[1,4]Diazepino[6,7,1-jk]pyrido[1',2',3':1,7]indolo[2,3-a]pyrrolo[3,4-c]carbazole-8,10(9H)-dione, 1,2,3,4,15,16-hexahydro-14,14-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

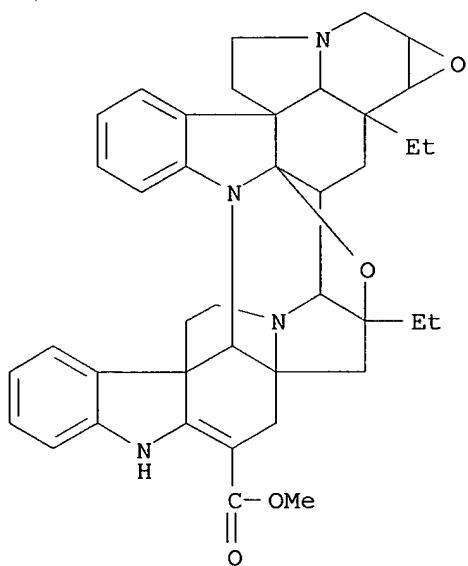


● HCl

L8 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN 1988:204858 CAPLUS
DN 108:204858
TI Carbon-13 NMR spectroscopy of indole derivatives
AU Morales-Rios, M. S.; Espineira, J.; Joseph-Nathan, P.
CS Cent. Invest. Estud. Avanzados, Inst. Politec. Nac., Mexico City, 07000, Mex.
SO Magn. Reson. Chem. (1987), 25(5), 377-95
CODEN: MRCHEG; ISSN: 0749-1581
DT Journal
LA English
AB The chem. shifts of 298 naturally occurring and synthetic compds. contg. the indole chromophoric group are listed. Substituent effects on 13C chem. shifts (SCS) induced by substitution on the heteroarom. five-membered ring are discussed. The data provide a ref. set for future 13C NMR investigations and highlight the need for unambiguous exptl. evidence to resolve controversial assignments for differently substituted representative indole derivs. Many original assignments have been changed, and values not considered to be unambiguously assigned are delineated. The 1J(CH) values for the parent indole were measured.
IT 84732-47-8
RL: RCT (Reactant)
(carbon-13 NMR chem. shifts of)
RN 84732-47-8 CAPLUS
CN 3,7-Secovafoline, 14',15'-depoxy-2,7,14',15'-tetradehydro-2,16-dihydro-, (16.alpha.)-(9CI) (CA INDEX NAME)



L8 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 1984:526863 CAPLUS
 DN 101:126863
 TI Indole alkaloids from *Stenosolen heterophyllus*: tabernamine and isotabernamine
 AU Kan, Christiane; Henriques, Amelia; Jasor, Yves; Moretti, Christian; Husson, Henri Philippe
 CS Inst. Chim. Subst. Nat., CNRS, Gif-sur-Yvette, 91190, Fr.
 SO J. Nat. Prod. (1984), 47(3), 478-81
 CODEN: JNPRDF; ISSN: 0163-3864
 DT Journal
 LA French
 AB Seventeen known indole alkaloids were isolated from *S. heterophyllus* (Apocynaceae). Spectral analyses and partial synthesis confirmed the previously proposed structure of tabernamine, a dimeric alkaloid of the voacamine type. Isotabernamine, an isomeric compd. at position C-10, was formed along with tabernamine in the condensation of vobasinol and ibogamine.
 IT 70545-44-7 77784-39-5 77784-40-8
 77794-87-7
 RL: BIOL (Biological study)
 (from *Stenosolen heterophyllus*)
 RN 70545-44-7 CAPLUS
 CN 13a,20a,23-Metheno-8H,10H,23H-indolo[2'',3'':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]oxireno[6,7]indolizino[8,1-cd]carbazole-19-carboxylic acid, 9b,21a-diethyl-5,6,8a,9a,9b,9c,10a,10b,12,13,18,20,21,21a-tetradecahydro-, methyl ester, (4bR,8aR,9aS,9bS,9cS,10aS,10bS,13aS,20aS,21aS,22aR,23S,24S)- (9CI) (CA INDEX NAME)

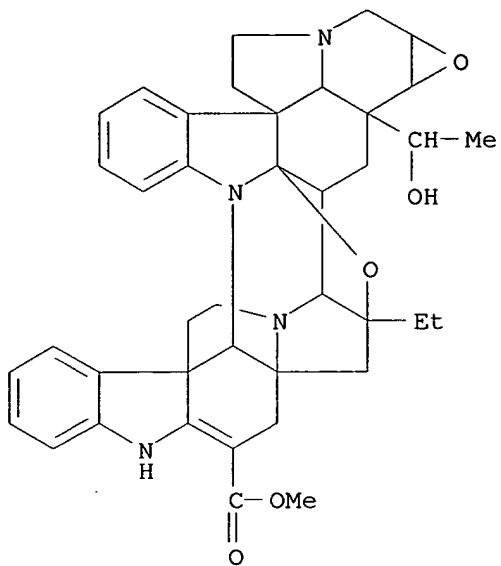


RN 77784-39-5 CAPLUS
 CN 14a,21a,24-Metheno-8H,11H,24H-indolizino[8,1-cd]indolo[2'',3'':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]carbazole-20-carboxylic acid, 10a,22a-diethyl-5,6,10a,10b,11a,11b,13,14,19,21,22,22a-dodecahydro-, methyl ester, (4bR,10aR,10bS,11aS,11bS,14aS,21aS,22aS,23aR,25S)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 77784-40-8 CAPLUS

CN Ervafoline, 19'-hydroxy- (9CI) (CA INDEX NAME)

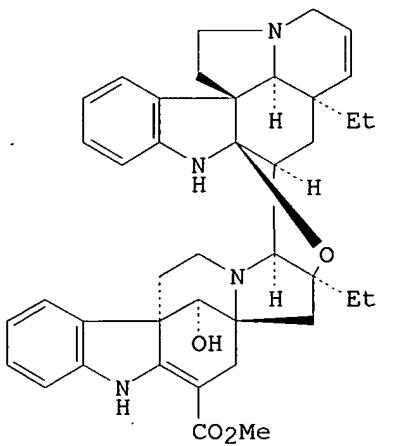


RN 77794-87-7 CAPLUS

CN Ervafoline, 14',15'-depoxy-14',15'-didehydro-19'-hydroxy- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L8 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 1983:104293 CAPLUS
 DN 98:104293
 TI Bisindole alkaloids of *Pandaca caducifolia*
 AU Zeches, Monique; Lukacs, Gabor; Massiot, Georges; Le Men-Olivier,
 Louisette
 CS Fac. Pharm., Reims, Fr.
 SO J. Nat. Prod. (1982), 45(6), 707-13
 CODEN: JNPRDF; ISSN: 0163-3864
 DT Journal
 LA English
 GI



AB Two novel bisindole alkaloids were isolated from *P. caducifolia*, ervafolidene (I) and epi-ervafolidene. Their structures were established by spectral anal. (esp. ¹³C NMR) and by comparison with the known alkaloid ervafolene (II), also isolated from the plant. Several unusual reactions of II are described, among which is a rearrangement pertaining to the pandoline moiety of the mol.

IT 77784-39-5

RL: BIOL (Biological study)
(of *Pandaca caducifolia*, properties of)

RN 77784-39-5 CAPLUS

CN 14a,21a,24-Metheno-8H,11H,24H-indolizino[8,1-cd]indolo[2'',3'':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]carbazole-20-carboxylic acid, 10a,22a-diethyl-5,6,10a,10b,11a,11b,13,14,19,21,22,22a-dodecahydro-, methyl ester, (4bR,10aR,10bS,11aS,11bS,14aS,21aS,22aS,23aR,25S)- (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 84716-79-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 84716-79-0 CAPLUS

CN Ervafoline, 1-acetyl-14',15'-depoxy-14',15'-didehydro-2,16-dihydro- (9CI)
(CA INDEX NAME)

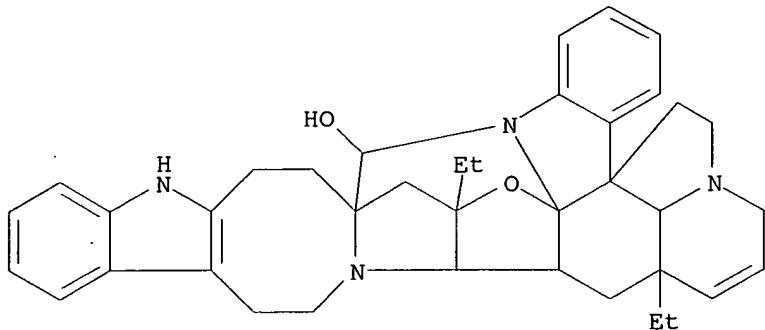
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **84716-78-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by ervafolene acid hydrolysis)

RN 84716-78-9 CAPLUS

CN 3,7-Secoverafoline, 14',15'-depoxy-2,7,14',15'-tetradehydro-16-
de(methoxycarbonyl)-2,16-dihydro- (9CI) (CA INDEX NAME)



IT **76881-05-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by ervafolene catalytic hydrogenation)

RN 76881-05-5 CAPLUS

CN 14a,21a,24-Metheno-8H,11H,24H-indolizino[8,1-cd]indolo[2''',3''':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]carbazole-20-carboxylic acid, 10a,22a-diethyl-5,6,9,10,10a,10b,11a,11b,13,14,19,21,22,22a-tetradecahydro-, methyl ester, [10aS-(4bS*,10a.alpha.,10b.alpha.,11a.alpha.,11b.beta.,14a.alpha.,21a.alpha.,22a.beta.,23aS*,24.alpha.,25R*)]- (9CI) (CA INDEX NAME)

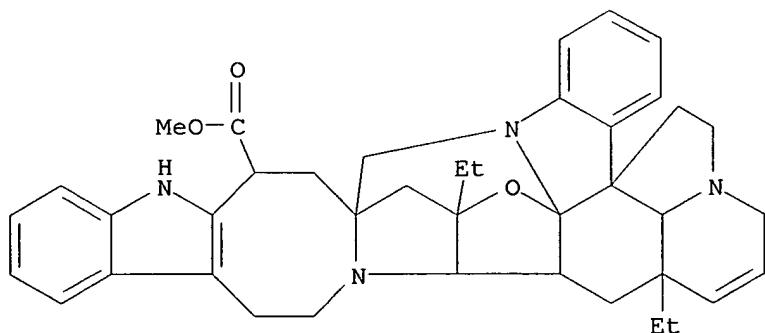
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **84732-47-8P 84732-48-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by ervafolene redn.)

RN 84732-47-8 CAPLUS

CN 3,7-Secoverafoline, 14',15'-depoxy-2,7,14',15'-tetradehydro-2,16-dihydro-, (16.alpha.)- (9CI) (CA INDEX NAME)



10/016,229

RN 84732-48-9 CAPLUS
CN Ervafoline, 14',15'-depoxy-14',15'-didehydro-2,16-dihydro- (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L8 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2002 ACS

AN 1982:82682 CAPLUS

DN 96:82682

TI New dimeric indole alkaloids from *Stenosolen heterophyllus*: structure determinations and synthetic approach

AU Henriques, Amelia; Kan, Christiane; Chiaroni, Angele; Riche, Claude; Husson, Henri Philippe; Kan, Siew Kwong; Lounasmaa, Mauri

CS Inst. Chim. Subst. Nat., Gif-sur-Yvette, F-91190, Fr.

SO J. Org. Chem. (1982), 47(5), 803-11

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB Alkaloids of the ervafolidine family, ervafolidine (I), 3-epi-ervafolidine, 19'(R)-hydroxyervafolidine, and 19'-hydroxyepervafolidine, were isolated from leaves of *S. heterophyllus*. Structures of these compds. and of 4 dimeric indole alkaloids of the ervafoline series were detd. by mass spectrometry, ¹H NMR, ¹³C NMR, and x-ray crystallog. A biogenetic pathway to take into account the formation of these alkaloids, and a synthetic approach based on this proposal was developed for the ervafoline series.

IT 70545-44-7 77784-39-5 77784-40-8

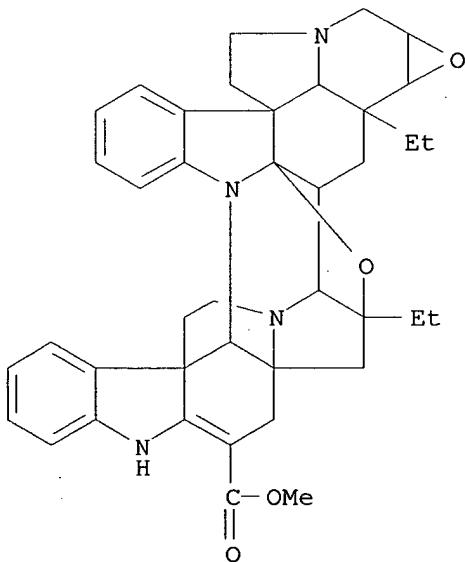
77794-87-7

RL: BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)

(of *Stenosolen heterophyllus*)

RN 70545-44-7 CAPLUS

CN 13a,20a,23-Metheno-8H,10H,23H-indolo[2'',3'':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]oxireno[6,7]indolizino[8,1-cd]carbazole-19-carboxylic acid, 9b,21a-diethyl-5,6,8a,9a,9b,9c,10a,10b,12,13,18,20,21,21a-tetradecahydro-, methyl ester, (4bR,8aR,9aS,9bS,9cS,10aS,10bS,13aS,20aS,21aS,22aR,23S,24S)- (9CI) (CA INDEX NAME)



RN 77784-39-5 CAPLUS

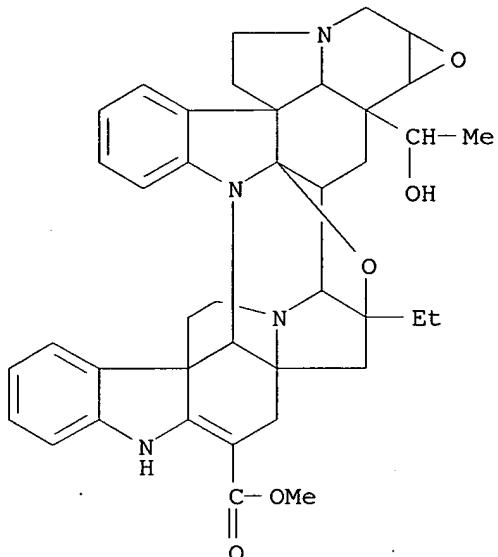
CN 14a,21a,24-Metheno-8H,11H,24H-indolizino[8,1-cd]indolo[2'',3'':5'',6'']a

zocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]carbazole-20-carboxylic acid, 10a,22a-diethyl-5,6,10a,10b,11a,11b,13,14,19,21,22,22a-dodecahydro-, methyl ester, (4bR,10aR,10bS,11aS,11bS,14aS,21aS,22aS,23aR,25S)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 77784-40-8 CAPLUS

CN Ervafoline, 19'-hydroxy- (9CI) (CA INDEX NAME)



RN 77794-87-7 CAPLUS

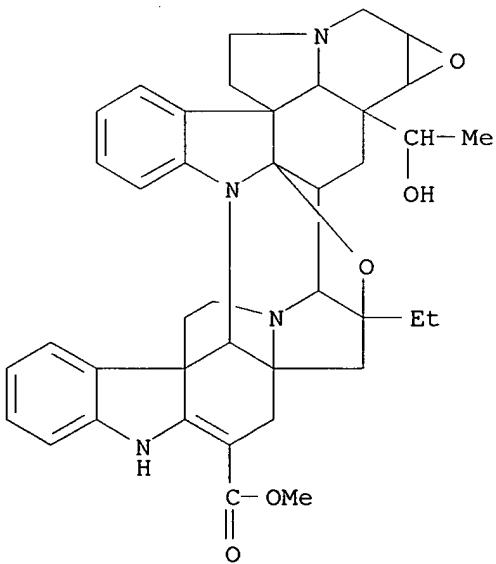
CN Ervafoline, 14',15'-depoxy-14',15'-didehydro-19'-hydroxy- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L8 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 1981:407560 CAPLUS
 DN 95:7560
 TI Determination of structures by proton NMR at 400 MHz: alkaloids of Stenosolen heterophyllus
 AU Henriques, Amelia; Kan, Christiane; Husson, Henri Philippe; Kan, Siew-Kwong; Lounasmaa, Mauri
 CS Inst. Chim. Subst. Nat., Gif-sur-Yvette, F-91190, Fr.
 SO Acta Chem. Scand., Ser. B (1980), B34(7), 509-12
 CODEN: ACBOCV; ISSN: 0302-4369
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
 AB The structures of three new dimeric indole alkaloids, 19'-hydroxyervafoline (I) ervafolene (II, R = H) and 19'-hydroxyervafolene II (R = HO), isolated from the leaves of Stenosolen heterophyllus, were detd. by their NMR spectra.
 IT 77784-39-5 77784-40-8 77794-87-7
 RL: RCT (Reactant)
 (new alkaloid from Stenosolen, structure of, NMR in relation to)
 RN 77784-39-5 CAPLUS
 CN 14a,21a,24-Metheno-8H,11H,24H-indolizino[8,1-cd]indolo[2''',3''':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]carbazole-20-carboxylic acid, 10a,22a-diethyl-5,6,10a,10b,11a,11b,13,14,19,21,22,22a-dodecahydro-, methyl ester, (4bR,10aR,10bS,11aS,11bS,14aS,21aS,22aS,23aR,25S)- (9CI)
 (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 77784-40-8 CAPLUS
 CN Ervafoline, 19'-hydroxy- (9CI) (CA INDEX NAME)



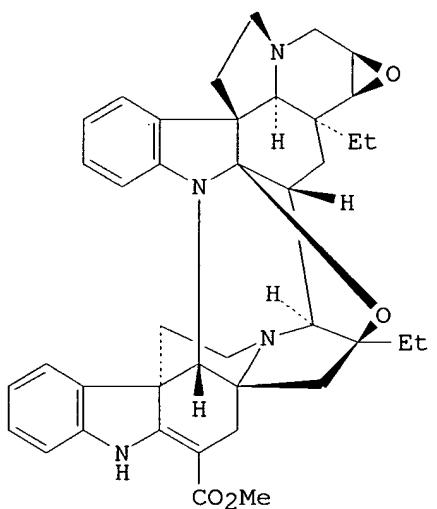
RN 77794-87-7 CAPLUS
 CN Ervafoline, 14',15'-deepoxy-14',15'-didehydro-19'-hydroxy- (9CI) (CA INDEX NAME)

10/016,229

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

10/016, 229

L8 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN 1980:181449 CAPLUS
DN 92:181449
TI A 400 MHz proton NMR study of the dimeric indole alkaloid ervafoline
AU Henriques, Amelia; Kan, Siew-Kwong; Lounasmaa, Mauri
CS Inst. Chim. Subst. Nat., Gif-sur-Yvette, F-91190, Fr.
SO Acta Chem. Scand., Ser. B (1979), B33(10), 775-6
CODEN: ACBOCV; ISSN: 0302-4369
DT Journal
LA English
GI



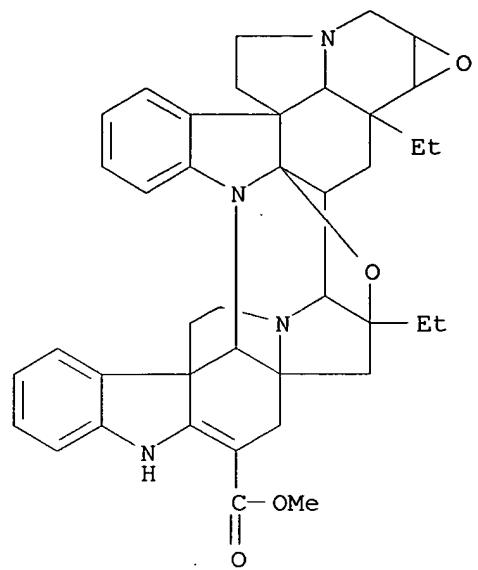
AB Consecutive double resonance expts. were used to discover all 44 protons in the NMR of ervafoline (I).

IT **70545-44-7**

RL: PRP (Properties)
(NMR of)

RN 70545-44-7 CAPLUS

CN 13a,20a,23-Metheno-8H,10H,23H-indolo[2'',3'':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]oxireno[6,7]indolizino[8,1-cd]carbazole-19-carboxylic acid, 9b,21a-diethyl-5,6,8a,9a,9b,9c,10a,10b,12,13,18,20,21,21a-tetradecahydro-, methyl ester, (4bR,8aR,9aS,9bS,9cS,10aS,10bS,13aS,20aS,21aS,22aR,23S,24S)- (9CI) (CA INDEX NAME)



L8 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2002 ACS

AN 1979:420842 CAPLUS

DN 91:20842

TI A new type of indolic alkaloid dimer. Structural study and x-ray analysis of ervafoline

AU Henriques, A.; Kan-Fan, C.; Ahond, A.; Riche, C.; Husson, H. P.

CS Inst. Chim. Subst. Nat., CNRS, Gif-sur-Yvette, Fr.

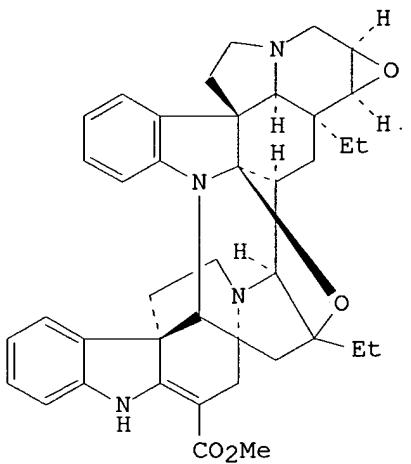
SO Tetrahedron Lett. (1978), (39), 3707-10

CODEN: TELEAY; ISSN: 0040-4039

DT Journal

LA French

GI



AB The structure and abs. configuration of ervafoline (I), an indolic alkaloid dimer isolated from *Stenosolen heterophyllus*, was detd. from spectral data and by x-ray crystallog. anal. A biosynthetic scheme for the formation of I is reported.

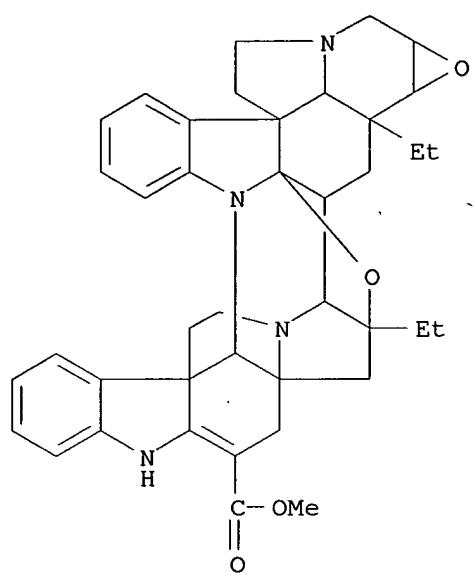
IT 70545-44-7

RL: RCT (Reactant)

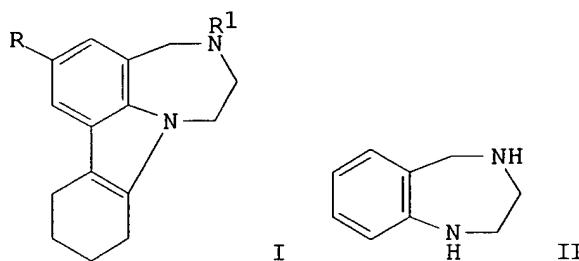
(of *Stenosolen heterophyllus*, crystal structure and abs. configuration of)

RN 70545-44-7 CAPLUS

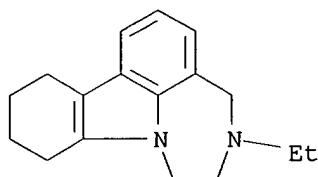
CN 13a,20a,23-Metheno-8H,10H,23H-indolo[2'',3'':5'',6'']azocino[1'',2'':1',5']pyrrolo[2',3':4,5]furo[2,3-m]oxireno[6,7]indolizino[8,1-cd]carbazole-19-carboxylic acid, 9b,21a-diethyl-5,6,8a,9a,9b,9c,10a,10b,12,13,18,20,21,21a-tetradecahydro-, methyl ester, (4bR,8aR,9aS,9bS,9cS,10aS,10bS,13aS,20aS,21aS,22aR,23S,24S)- (9CI) (CA INDEX NAME)



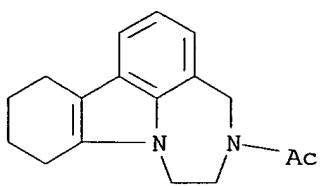
L8 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN 1977:121311 CAPLUS
DN 86:121311
TI Synthesis of 1,2,3,4,8,9,10,11-octahydro[1,4]diazepino[6,5,4-jk]carbazole
and related compounds
AU Kim, Dong Han
CS Res. Div., Wyeth Lab., Inc., Philadelphia, Pa., USA
SO J. Heterocycl. Chem. (1976), 13(6), 1187-92
CODEN: JHTCAD
DT Journal
LA English
GI



AB 1,2,3,4,8,9,10,11-Octahydro[1,4]diazepino[6,5,4-jk]carbazole (I, R = R1 = H) was prepd. from 2,3,4,5-tetrahydro-1H-benzodiazepine (II) via acetylation, nitrosation, redn., cyclization with cyclohexanone, and deacetylation. Similarly prepd. were I (R = Cl, R1 = Ac; R = H, R1 = Me).
 IT **57756-50-0P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and chlorination of)
 RN 57756-50-0 CAPLUS
 CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-ethyl-1,2,3,4,8,9,10,11-octahydro-
 (9CI) (CA INDEX NAME)

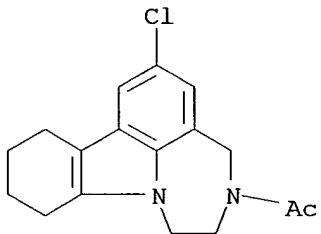


IT 57756-41-9P 57756-42-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and deacetylation of)
RN 57756-41-9 CAPIUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4,8,9,10,11-octahydro-
(9CI) (CA INDEX NAME)



RN 57756-42-0 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-6-chloro-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)

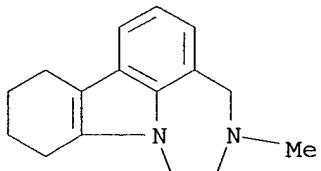


IT 57756-43-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and quaternization of)

RN 57756-43-1 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-3-methyl- (9CI) (CA INDEX NAME)

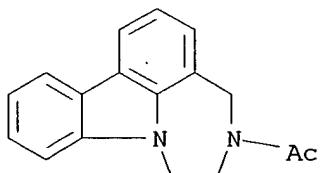


IT 57756-46-4P 57756-54-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and redn. of)

RN 57756-46-4 CAPLUS

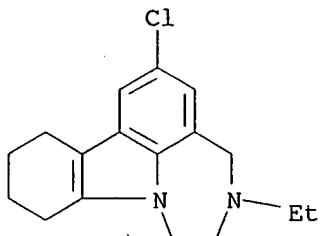
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



RN 57756-54-4 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 6-chloro-3-ethyl-1,2,3,4,8,9,10,11-

octahydro- (9CI) (CA INDEX NAME)

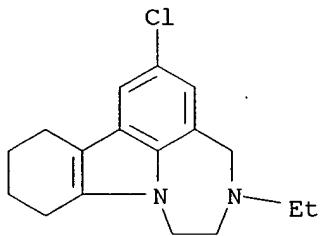


IT 57716-82-2P 57716-83-3P 57716-84-4P
57756-44-2P 57756-45-3P 57756-48-6P
57756-49-7P 57756-51-1P 57756-52-2P
57756-53-3P 61471-61-2P 62088-85-1P
62088-86-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 57716-82-2 CAPLUS

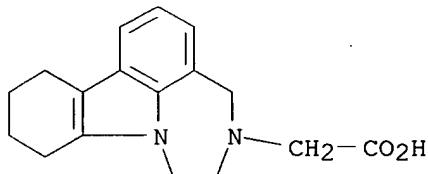
CN [1,4]Diazepino[6,7,1-jk]carbazole, 6-chloro-3-ethyl-1,2,3,4,8,9,10,11-octahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 57716-83-3 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole-3(4H)-acetic acid, 1,2,3,4,8,9,10,11-hexahydro-, sodium salt (9CI) (CA INDEX NAME)

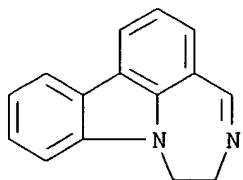


Na

10/016,229

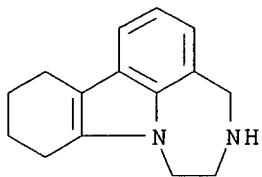
RN 57716-84-4 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2-dihydro- (9CI) (CA INDEX NAME)



RN 57756-44-2 CAPLUS

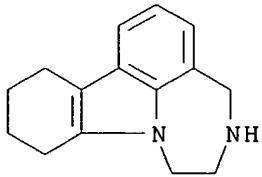
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 57756-45-3 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



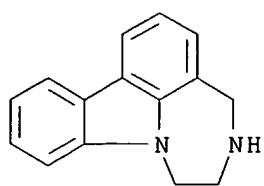
RN 57756-48-6 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4-tetrahydro-, sulfate (2:1) (9CI) (CA INDEX NAME)

CM 1

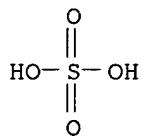
CRN 57756-47-5

CMF C15 H14 N2

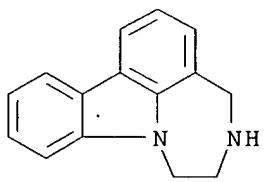


CM 2

CRN 7664-93-9
CMF H₂ O₄ S

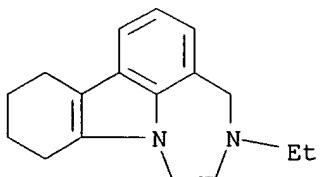


RN 57756-49-7 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4-tetrahydro-, monohydrochloride
(9CI) (CA INDEX NAME)



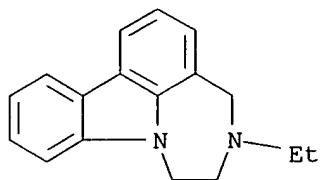
● HCl

RN 57756-51-1 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-ethyl-1,2,3,4,8,9,10,11-octahydro-, monohydrochloride (9CI) (CA INDEX NAME)

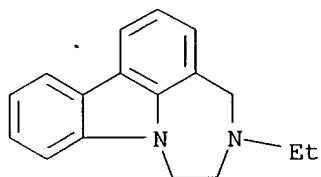


HCl

RN 57756-52-2 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-ethyl-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)

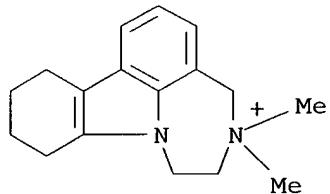


RN 57756-53-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-ethyl-1,2,3,4-tetrahydro-, monohydrochloride (9CI) (CA INDEX NAME)



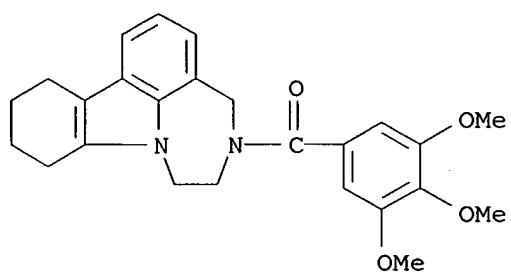
● HCl

RN 61471-61-2 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazolium, 1,2,3,4,8,9,10,11-octahydro-3,3-dimethyl-, iodide (9CI) (CA INDEX NAME)



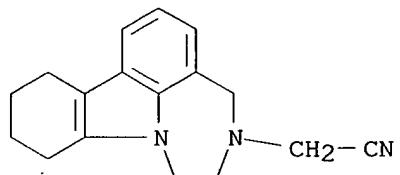
● I⁻

RN 62088-85-1 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-3-(3,4,5-trimethoxybenzoyl)- (9CI) (CA INDEX NAME)

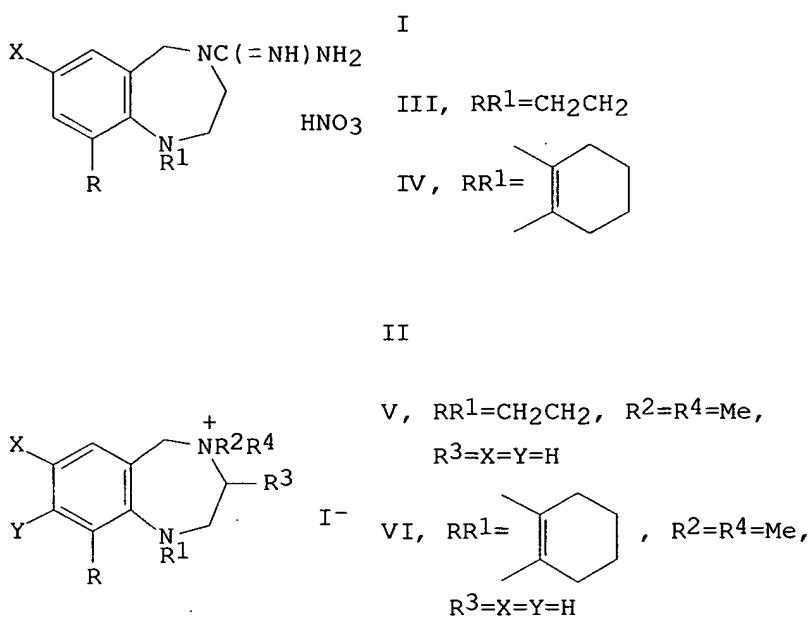


RN 62088-86-2 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole-3(4H)-acetonitrile, 1,2,8,9,10,11-hexahydro- (9CI) (CA INDEX NAME)



L8 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2002 ACS
 AN 1977:114977 CAPLUS
 DN 86:114977
 TI Derivatives of tetrahydro-1,4-benzodiazepines as potential
 antihypertensive agents
 AU Kim, Dong Han; Baum, Thomas
 CS Med. Chem. Sect., Wyeth Lab., Inc., Philadelphia, Pa., USA
 SO J. Med. Chem. (1977), 20(2), 209-12
 CODEN: JMCMAR
 DT Journal
 LA English
 GI



AB Redn. of benzodiazepinedione derivs. followed by amidination with 1-amidino-3,5-dimethylpyrazole nitrate [38184-47-3] gave 3 amidino derivs. (I; R = H; R1 = H, Me; X = H, Cl), while reaction of the redn. products with MeI gave 6 quaternary salts (II; R = H; R1 = H, Me, Et; R2 = Me; R3 = H, Me; R4 = Me, Et; X = H, Cl, MeO; Y = H, MeO). Bridged analogs III [61471-57-6], IV [61471-59-8], V [61471-60-1], and VI [61471-61-2] were also prepd. In tests for antihypertensive activity in conscious rats 1,2,3,5-tetrahydro-4H-1,4-benzodiazepine-4-carboxamidine nitrate (I; R = R1 = X = H) [58483-85-5], its Me deriv. (I; R = X = H; R1 = Me) [58483-89-9], II (R = R1 = R3 = X = Y = H; R2 = R4 = Me) [57247-57-1], and V gave marked blood pressure lowering (>50 mm Hg) at oral doses of 75 mg/kg. Structure-activity relations and evidence linking activity to sympathetic nervous system impairment are discussed.

IT 61471-59-8P 61471-61-2P
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. and antihypertensive activity of)

10/016, 229

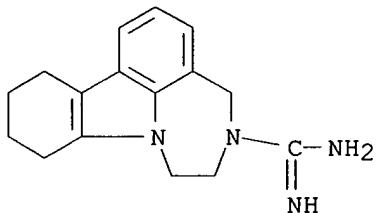
RN 61471-59-8 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole-3(4H)-carboximidamide,
1,2,8,9,10,11-hexahydro-, mononitrate (9CI) (CA INDEX NAME)

CM 1

CRN 61471-58-7

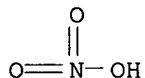
CMF C16 H20 N4



CM 2

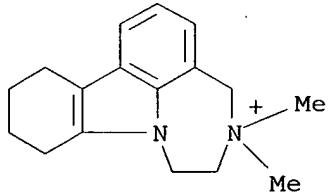
CRN 7697-37-2

CMF H N O3



RN 61471-61-2 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazolium, 1,2,3,4,8,9,10,11-octahydro-3,3-dimethyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

L8 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2002 ACS

AN 1976:560051 CAPLUS

DN 85:160051

TI Synthesis and properties of some tetracyclic derivatives of 9H-carbazole, 10,11-dihydro-5H-dibenz[b,f]azepine, and 5,11-dihydrodibenz[b,e][1,4]oxazepine

AU Toscano, Luciano; Seghetti, Ennio; Fioriello, Giuseppe

CS Dep. Synth. Chem. Res., Pierrel S.p.A., Milan, Italy

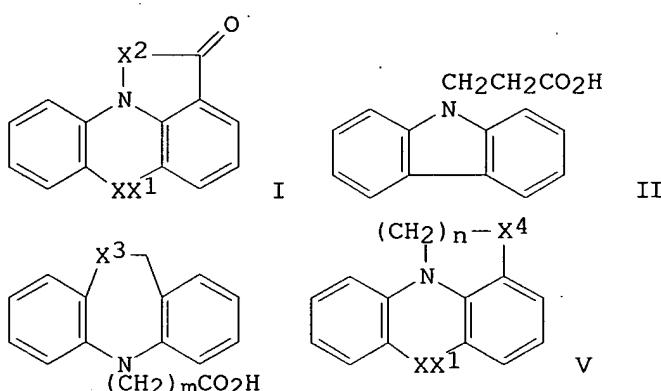
SO J. Heterocycl. Chem. (1976), 13(3), 475-80

CODEN: JHTCAD

DT Journal

LA English

GI

III, X³=CH₂, m=2IV, X³=O, m=3AB The tetracyclic heterocycles I [XX1 = -, X2 = (CH₂)₂; XX1 = X2 = (CH₂)₂; XX1 = CH₂O, X2 = (CH₂)₃; XX1 = OCH₂, X2 = (CH₂)₃], prep'd. by cyclization of the carbazole II, dibenzazepine III, or dibenzoxazepine IV, were treated with polyphosphoric acid-Na₃ to give the lactams V (XX1 = -, X4 = NHCO, n = 2; XX1 = (CH₂)₂, X4 = NHCO, n = 2; XX1 = CH₂O, X4 = CONH, n = 3; XX1 = OCH₂, X4 = CONH, n = 3).

IT 60579-02-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and formylation of)

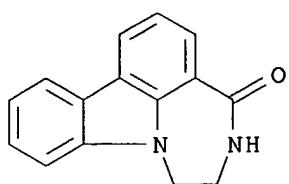
RN 60579-02-4 CAPLUS

IT 59705-06-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and redn. of)

RN 59705-06-5 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazol-4(1H)-one, 2,3-dihydro- (9CI) (CA INDEX NAME)

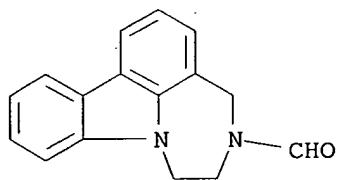


IT 60579-06-8P 60579-08-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

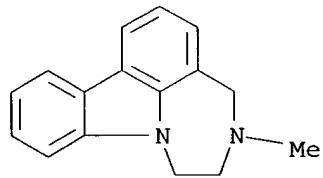
RN 60579-06-8 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole-3(4H)-carboxaldehyde, 1,2-dihydro- (9CI)
(CA INDEX NAME)



RN 60579-08-0 CAPLUS

CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4-tetrahydro-3-methyl- (9CI) (CA
INDEX NAME)



L8 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2002 ACS

AN 1976:432967 CAPLUS

DN 85:32967

TI Schmidt reaction of tetrahydroquinolone derivatives

AU Haerter, H. P.; Stauss, U.; Osiecki, J. H.; Schindler, O.

CS Forschungsinst., Wander A.-G., Bern, Switz.

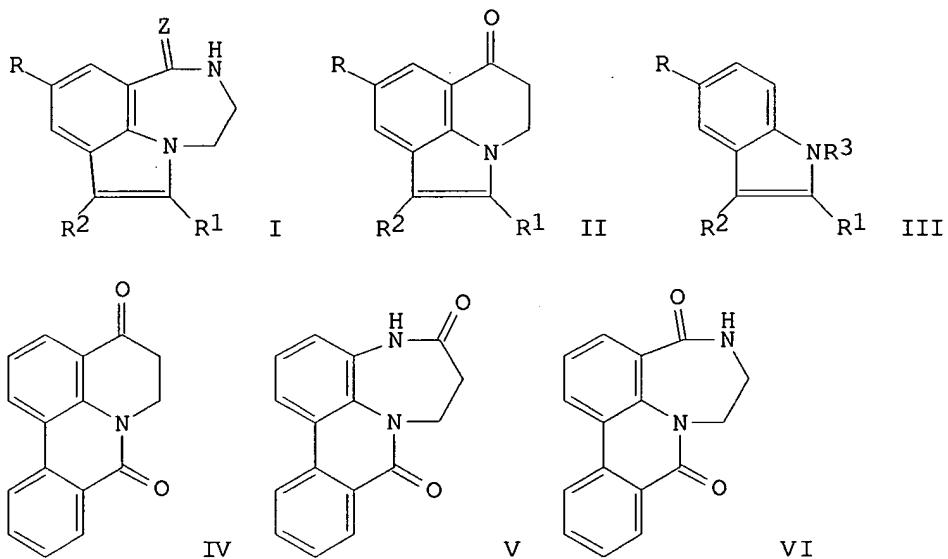
SO Chimia (1976), 30(2), 50-2

CODEN: CHIMAD

DT Journal

LA German

GI



AB Diazepinones I [Z = O; R = H, R1 = H, Et, R2 = Me, R1R2 = (CH)4, CH:CHCCl:CH, (CH2)4; R = Cl, R1 = R2 = Me, R1R2 = (CH2)4] were obtained by Schmidt reaction of the tetrahydroquinolones II. Structure of I (Z = O) was confirmed by redn. to I (Z = H2). II were prep'd. by treating III (R3 = H) with CH2:CHCN, ethanolysis of III (R3 = CH2CH2CN), hydrolysis of III (R3 = CH2CH2CO2Et), and cyclization of III (R3 = CH2CH2CO2H). Schmidt reaction of IV, similarly prep'd. from phenanthridone, gave isomeric diazepinones V and VI.

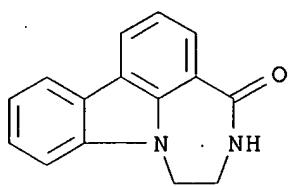
IT 59705-06-5P 59705-07-6P 59705-08-7P

59705-09-8P

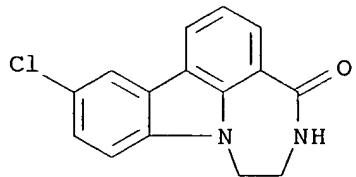
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and redn. of)

RN 59705-06-5 CAPLUS

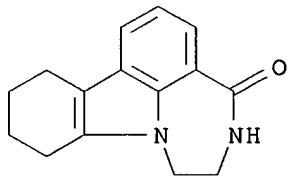
CN [1,4]Diazepino[6,7,1-jk]carbazol-4(1H)-one, 2,3-dihydro- (9CI) (CA INDEX NAME)



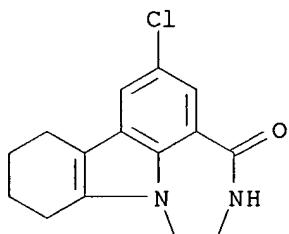
RN 59705-07-6 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazol-4(1H)-one, 9-chloro-2,3-dihydro- (9CI)
(CA INDEX NAME)



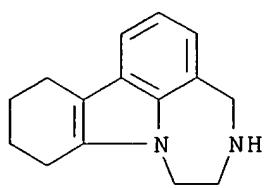
RN 59705-08-7 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazol-4(1H)-one, 2,3,8,9,10,11-hexahydro- (9CI)
(CA INDEX NAME)



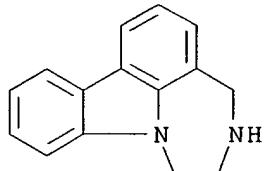
RN 59705-09-8 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazol-4(1H)-one, 6-chloro-2,3,8,9,10,11-
hexahydro- (9CI) (CA INDEX NAME)



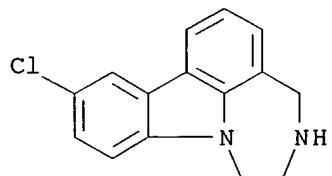
IT 57756-45-3P 57756-47-5P 59705-11-2P
59705-12-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 57756-45-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro- (9CI) (CA
INDEX NAME)



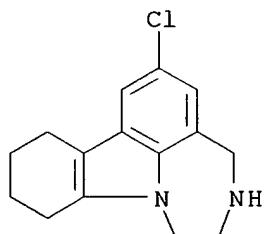
RN 57756-47-5 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



RN 59705-11-2 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 9-chloro-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



RN 59705-12-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 6-chloro-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



L8 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2002 ACS

AN 1976:31150 CAPLUS

DN 84:31150

TI 1,4-Diazepino[6,5,4-jk]carbazoles

IN Kim, Dong H.

PA American Home Products Corp., USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3914250	A	19751021	US 1974-493807	19740801

GI For diagram(s), see printed CA Issue.

AB Anticonvulsant diazepinocarbazoles I-IV (R = H, Ac, Me, Et, CH₂CO₂Na; R = H, Cl)(11 compds.) were prep'd. from benzodiazepine IV (R = H, Me, R₁ = H, Cl). Thus, I(R = Ac, R₁ = H), obtained from IV (R = R₁ = H) via acetylation, nitrosation, redn. using Zn dust and HOAc, and then condensation with cyclohexanone, underwent deacetylation to I(R = R₁ = H) and then N-alkylation with BrCH₂CO₂Et to give I(R = CH₂CO₂Na, R₁ = H). Refluxing a xylene soln. of I(R = Ac, R₁ = H) with Pd/C gave II, which was deacetylated to II(R = R₁ = H) or was reduced with LiAlH₄ to II(R = Et, R₁ = H). III (R₁ = H) was obtained from I(R = Ac, R₁ = H) by successive redn. with LiAlH₄ and then dehydrogenation using Pd/C. I(R = Ac, R₁ = H) had an ED₅₀ of 112 mg/kg against extensor seizures in mice.

IT 57716-83-3P 57716-84-4P 57756-42-0P

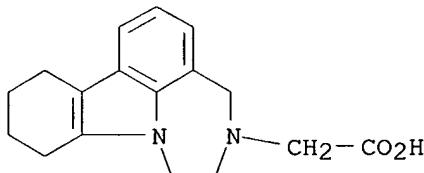
57756-45-3P 57756-47-5P 57756-50-0P

57756-52-2P 57756-54-4P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and anticonvulsant activity of)

RN 57716-83-3 CAPLUS

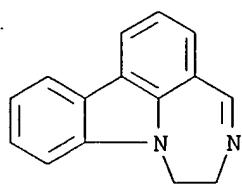
CN [1,4]Diazepino[6,7,1-jk]carbazole-3(4H)-acetic acid, 1,2,8,9,10,11-hexahydro-, sodium salt (9CI) (CA INDEX NAME)



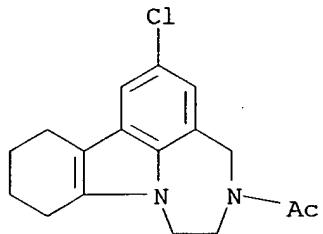
● Na

RN 57716-84-4 CAPLUS

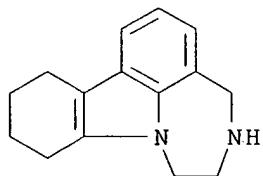
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2-dihydro- (9CI) (CA INDEX NAME)



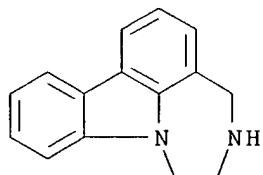
RN 57756-42-0 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-6-chloro-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



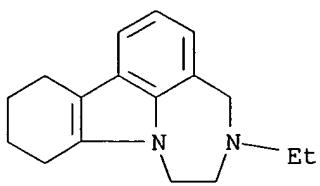
RN 57756-45-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



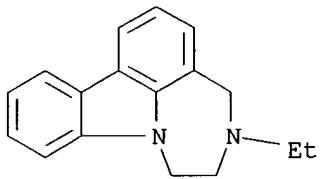
RN 57756-47-5 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)



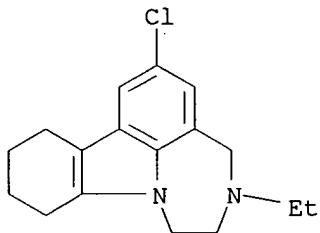
RN 57756-50-0 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-ethyl-1,2,3,4,8,9,10,11-octahydro- (9CI) (CA INDEX NAME)



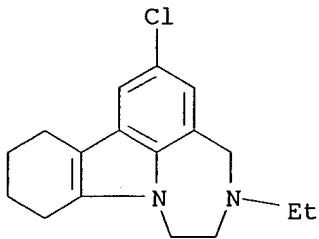
RN 57756-52-2 CAPLUS
CN [1, 4]Diazepino[6, 7, 1-jk]carbazole, 3-ethyl-1, 2, 3, 4-tetrahydro- (9CI) (CA INDEX NAME)



RN 57756-54-4 CAPLUS
CN [1, 4]Diazepino[6, 7, 1-jk]carbazole, 6-chloro-3-ethyl-1, 2, 3, 4, 8, 9, 10, 11-octahydro- (9CI) (CA INDEX NAME)

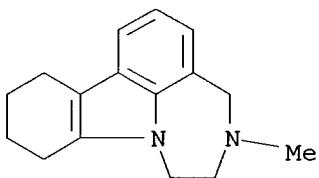


IT 57716-82-2P 57756-43-1P 57756-44-2P
57756-48-6P 57756-49-7P 57756-51-1P
57756-53-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 57716-82-2 CAPLUS
CN [1, 4]Diazepino[6, 7, 1-jk]carbazole, 6-chloro-3-ethyl-1, 2, 3, 4, 8, 9, 10, 11-octahydro-, monohydrochloride (9CI) (CA INDEX NAME)

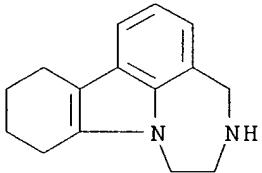


● HCl

RN 57756-43-1 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-3-methyl-
(9CI) (CA INDEX NAME)



RN 57756-44-2 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4,8,9,10,11-octahydro-,
monohydrochloride (9CI) (CA INDEX NAME)

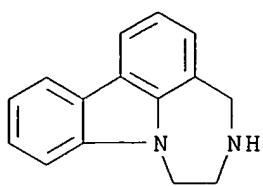


● HCl

RN 57756-48-6 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4-tetrahydro-, sulfate (2:1)
(9CI) (CA INDEX NAME)

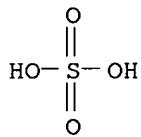
CM 1

CRN 57756-47-5
CMF C15 H14 N2

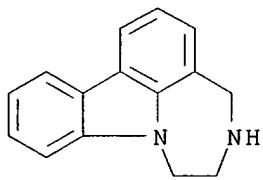


CM 2

CRN 7664-93-9
CMF H2 O4 S

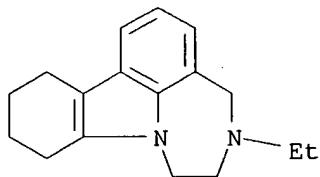


RN 57756-49-7 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 1,2,3,4-tetrahydro-, monohydrochloride
(9CI) (CA INDEX NAME)



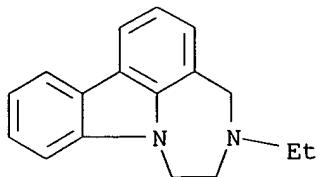
• HCl

RN 57756-51-1 CAPIUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-ethyl-1,2,3,4,8,9,10,11-octahydro-,
monohydrochloride (9CI) (CA INDEX NAME)



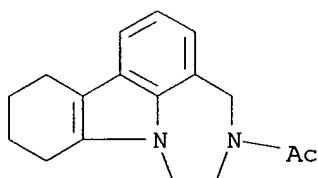
HCl

RN 57756-53-3 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-ethyl-1,2,3,4-tetrahydro-,
monohydrochloride (9CI) (CA INDEX NAME)

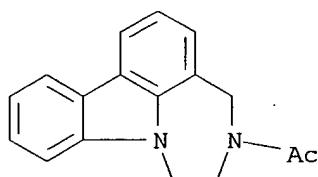


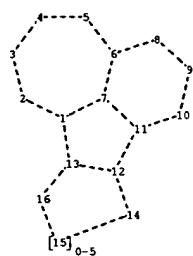
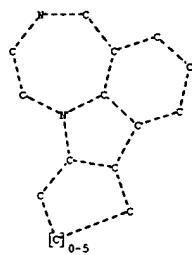
● HCl

IT 57756-41-9P 57756-46-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., reaction, and anticonvulsant activity of)
RN 57756-41-9 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4,8,9,10,11-octahydro-
(9CI) (CA INDEX NAME)



RN 57756-46-4 CAPLUS
CN [1,4]Diazepino[6,7,1-jk]carbazole, 3-acetyl-1,2,3,4-tetrahydro- (9CI) (CA
INDEX NAME)





ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ring bonds :

1-2 1-7 1-13 2-3 3-4 4-5 5-6 6-7 6-8 7-11 8-9 9-10 10-11
11-12 12-13 12-14 13-16 14-15 15-16

exact/norm bonds :

1-2 1-7 1-13 2-3 3-4 4-5 5-6 6-7 6-8 7-11 8-9 9-10 10-11
11-12 12-13 12-14 13-16 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom